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FINAL ACTION MEMORANDUM AND SITE EVALUATION NIKE MISSLE MAGAZINE BRAVO  
IN AREA 6A LIBERTYVILLE TRAINING SITE NAS GLENVIEW IL

8/30/2002  
ENSAFE

**FINAL ACTION MEMORANDUM AND SITE EVALUATION  
NIKE MISSILE MAGAZINE BRAVO IN AREA 6A  
LIBERTYVILLE TRAINING SITE  
VERNON HILLS, ILLINOIS**

**SOUTHNAVFACENGCOM  
CONTRACT NUMBER:  
N62467-89-D-0318**

**CTO-161**

**Prepared for:**



**Department of the Navy  
Southern Division  
Naval Facilities Engineering Command  
North Charleston, South Carolina**

**Prepared by:**



**EnSafe Inc.  
5724 Summer Trees Drive  
Memphis, Tennessee 38134  
(901) 372-7962  
[www.ensafe.com](http://www.ensafe.com)**

**August 30, 2002**

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**The Contractor, EnSafe Inc., hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-89-D-0318 is complete, accurate, and complies with all requirements of the contract.**

**Date:** August 30, 2002

**Signature:** *Claire Barnett*

**Name:** Claire Barnett, P.E.

**Title:** Task Order Manager

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## List of Acronyms

AR	Administrative Record
ARAR	Applicable or Relevant and Appropriate Requirement
BCT	Base Realignment and Closure Cleanup Team
CCI	CH2M Hill Constructors, Inc.
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
FAA	Federal Aviation Administration
IR	Information Repository
LSL	Libertyville Screening Level
LTS	Libertyville Training Site
NAS	Naval Air Station
NCP	National Contingency Plan
PAH	polynuclear aromatic hydrocarbon
PCB	polychlorinated biphenyl
SARA	Superfund Amendment Reauthorization Act
SVOC	semivolatile organic compound
TAL	target analyte list
TCL	target compound list
TCRA	time-critical removal action
VOC	volatile organic compound

## **1.0 PURPOSE**

This memorandum documents the objectives and scope of the time-critical removal action (TCRA) planned for former NIKE Missile Magazine Bravo in Area 6A at the Libertyville Training Site (LTS). The purpose of this removal action is to abate the threat to public health and the environment posed by contaminated soil at this site. Subsurface soil at Magazine Bravo is contaminated with semivolatile organic compounds (SVOCs) at concentrations exceeding site remediation levels. The selected removal action is excavation of contaminated soil with disposal offsite as special waste (as determined by hazardous waste characterization) in a permitted landfill. Timing of remediation is critical based on construction schedule commitments for site redevelopment.

This document is issued by the U.S. Department of Navy, the lead agency responsible for this site. The Navy became the lead agency through the president's signing of Executive Order 12580 on January 23, 1987. This Executive Order delegated the president's authority under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the Superfund Amendment Reauthorization Act (SARA) to federal agencies such as the Department of Defense and Department of the Navy. This authority gave the Department of the Navy the responsibility, as lead agency, for conducting response actions to remove or clean up actual or potential releases of hazardous substances, pollutants, or contaminants at its facilities.

Section 104 of CERCLA and SARA allows an authorized agency to remove, or arrange for removal, and to provide for remedial action relating to hazardous substances, pollutants, or contaminants at any time or to take any other response measure consistent with the National Contingency Plan (NCP) as necessary to protect the public health, welfare, and/or the environment.

The NCP, 40 Code of Federal Regulation (CFR) 300.415 provides implementing regulations for CERCLA and SARA specific to removal actions. Conditions at this site meet the NCP section 300.415 (b)(20) criteria for a removal action.

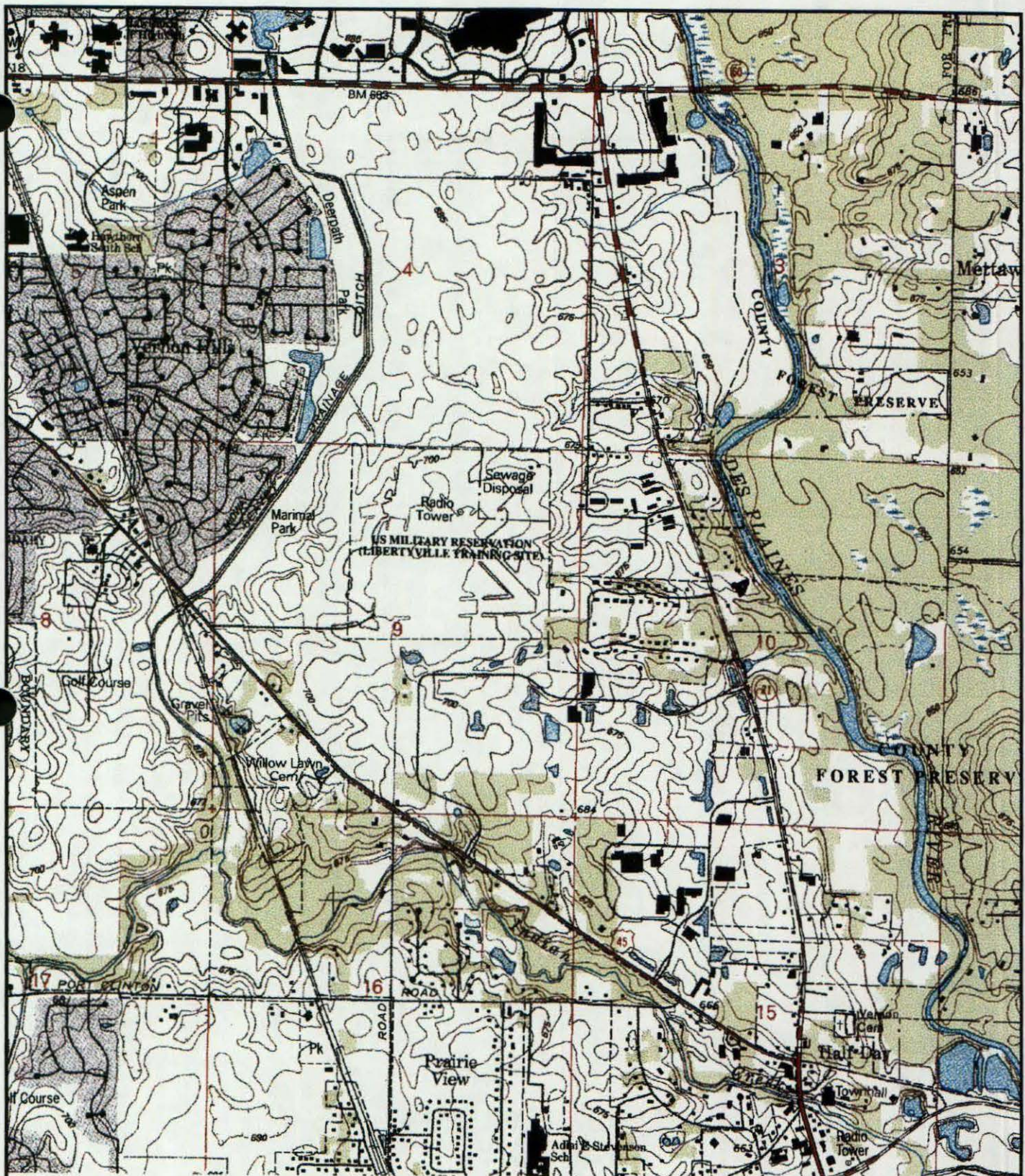
This document was prepared pursuant to NCP, 40 CFR 300.410 and 300.415. An Administrative Record (AR) file and Information Repository (IR) have been established for this site. Sections 1, 2 and 3 of this document include information which, along with documents located in the AR and IR, serve as the Removal Site Evaluation for this TCRA. Public Notice of the TCRA, the AR, and IR was published in the *Daily Herald*, a local newspaper of record, on August 29, 2002.

## **2.0 SITE CONDITIONS AND BACKGROUND**

### **2.1 Physical Location**

The 164.32-acre LTS is approximately 30 miles north of downtown Chicago (Figure 1). With elevations varying from approximately 690 to 705 feet above mean sea level, the LTS property is higher than the surrounding area. The Navy purchased the site in 1945 for use as an auxiliary airfield and training site for Naval Air Station (NAS) Glenview. In 1954, the LTS was transferred to the Army and used as a NIKE missile base until 1963. In 1972, the Navy resumed control of the LTS, intending to use it for NAS Glenview housing, which was never built. The LTS was later used for local military and civilian firearms training. From 1971 until the fall of 2000, the Federal Aviation Administration (FAA) used 6 acres for an aircraft navigational aid facility. In 1999, the Navy transferred 3.67 acres of the LTS to the FAA for construction of a new navigational aid facility, which became operational in the fall of 2000. As of October 2001, all of the LTS property has been transferred from the Navy to the FAA or the community, with the exception of Area 6A.





SOURCE: USGS 7.5 MINUTE QUADRANGLE  
WHEELING, IL

2000 0 2000  
SCALE FEET



MAGAZINE BRAVO  
ACTION  
MEMORANDUM  
LIBERTYVILLE  
TRAINING SITE  
VERNON HILLS, ILLINOIS

FIGURE 1  
SITE LOCATION MAP

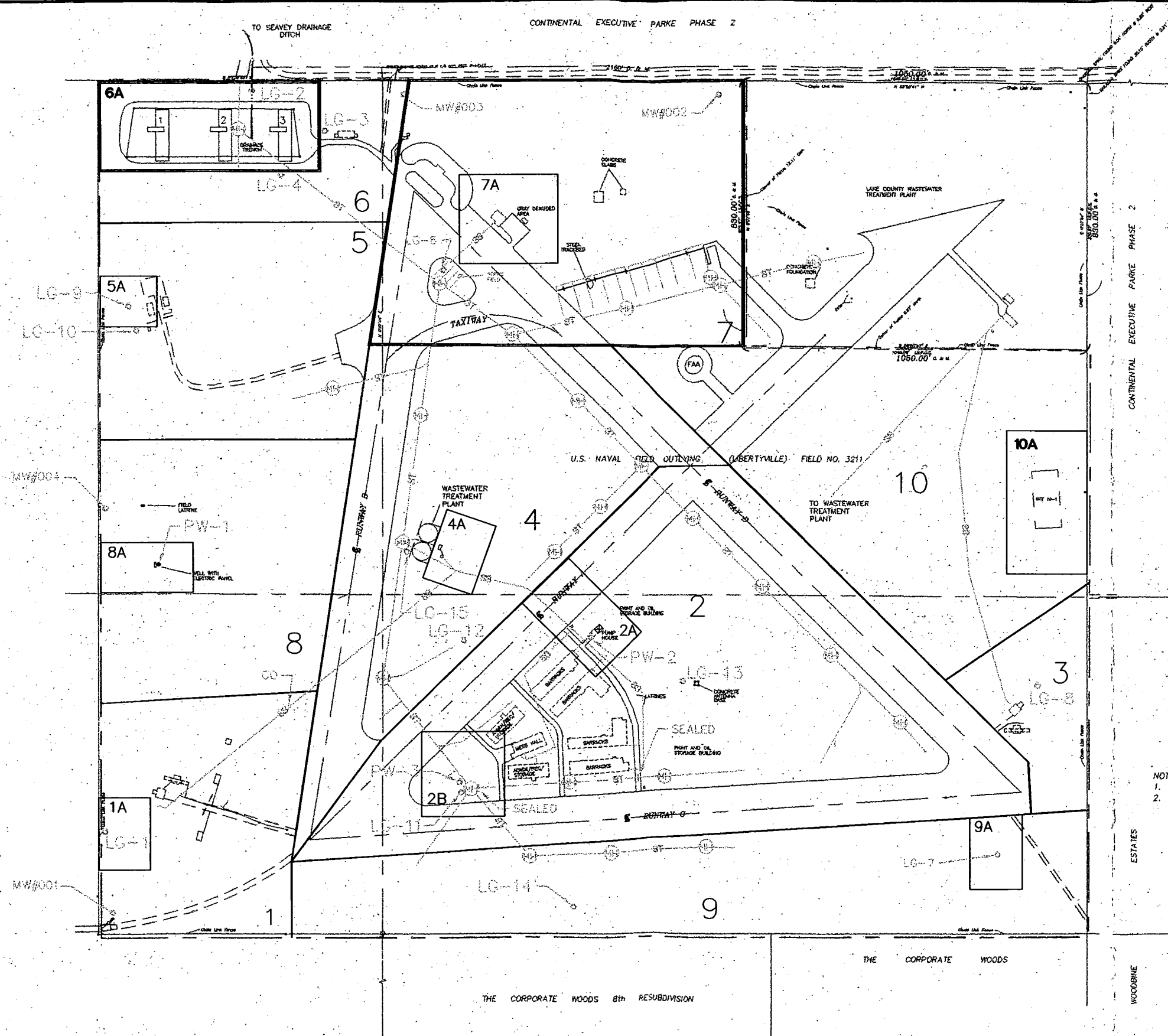
DWG DATE: 07/25/02 NAME: 0161001G011



During the Environmental Baseline Survey, all LTS areas were classified "Gray," meaning they had not been evaluated or required additional evaluation. The LTS was divided into 10 areas for the investigation (Figure 2). These divisions allowed the potential environmental issues to be addressed in an organized fashion. Following the initial site investigation, areas requiring further investigation or action were separated and designated with a letter after the area number, i.e., Area 6 was divided into Areas 6 and 6A.

Area 6A contains the former C-94 Launch Area, which included three NIKE missile storage magazines. The three abandoned underground magazines are identified as Magazines Alpha, Bravo, and Charlie (Figure 3). During the site's use by the Army, NIKE missiles were stored in the magazines but were never deployed. The surface of Area 6A was paved, with a storm water drainage ditch around the perimeter of the magazines. Prior to redevelopment by the Village of Vernon Hills, most of the storm water from the LTS flowed to Area 6A via a 48-inch storm drain and was discharged to the drainage ditch immediately north of Area 6A. Trespassing has been a persistent problem over the history of the property; the abandoned magazines proved to be an attractive location for many activities. For many years, the Navy has blocked access to all three magazines to prevent trespassers from entering them. Recently, a chain-link fence was erected around Area 6A to further prevent unauthorized access to the site, and demolition of the magazines is underway. Even with the security measures currently in place, the potential for trespassing remains a concern during the demolition activities of the TCRA.

Currently, the land uses surrounding the site are suburban. Land use to the north is an office park campus; land use to the northeast, east and southeast is recreational, consisting of sports fields and open space. A storm water management reservoir is located to the south of the site. Land uses to the west and northwest are single family residential and a public park.

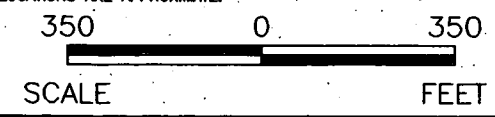


- LEGEND
- FOUNDATION
  - MONITORING WELL
  - BOUNDARY
  - SS = SANITARY SEWER
  - PW = POTABLE WATER
  - E = ELECTRIC LINE
  - UGT = UNDERGROUND TELEPHONE LINE
  - C.H/W = CONCRETE HEADWALL
  - CL = CENTER LINE
  - C.M.P. = CORRUGATED METAL PIPE
  - M.W. = MONITORING WELL

**WARNING**

UTILITY INFORMATION IS BASED UPON FIELD MEASUREMENTS, AND THE BEST AVAILABLE RECORDS. FIELD DATA IS LIMITED TO THAT WHICH IS VISIBLE AND CAN BE MEASURED. THIS DOES NOT PRECLUDE THE EXISTENCE OF OTHER UNDERGROUND ITEMS. RECORD INFORMATION IS BASED UPON DATA COLLECTED FROM BOTH PUBLIC AND PRIVATE SOURCES. THE COMPLETENESS AND/OR ACCURACY OF THESE RECORDS CANNOT BE GUARANTEED, EXCEPT INsofar AS THEY CAN BE VERIFIED BY FIELD MEASUREMENT. PRIOR TO ANY EXCAVATION CONTACT "J.U.L.I.E." AT 1-800-892-0123, JOINT UTILITY LOCATING INFORMATION EXCAVATORS.

- NOTES:
1. EXISTING RUNWAYS ARE BROKEN CONCRETE WITH SUBSTANTIAL BRUSH GROWTH.
  2. ALL WELL LOCATIONS ARE APPROXIMATE.



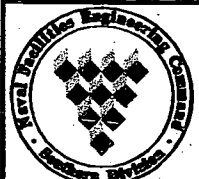
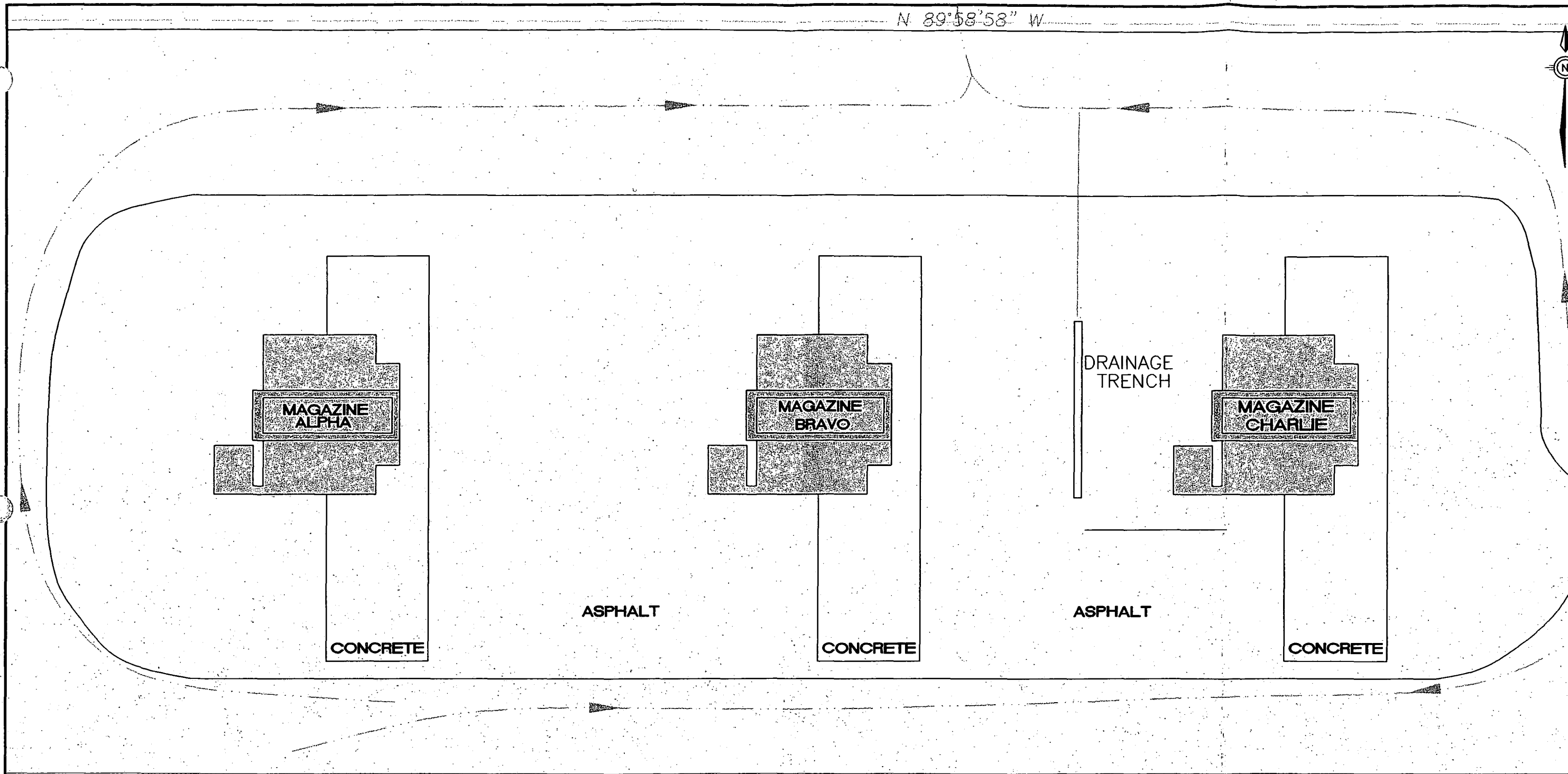
 MAGAZINE BRAVO  
ACTION  
MEMORANDUM  
LIBERTYVILLE  
TRAINING SITE  
VERNON HILLS, ILLINOIS

FIGURE 2  
SITE MAP

N 89°58'58" W



LEGEND  
—— 6A BOUNDARY  
—— DITCH; ARROW DENOTES FLOW DIRECTION  
SHADED AREA DENOTES SUBSURFACE MAGAZINE LOCATION.



MAGAZINE BRAVO  
ACTION  
MEMORANDUM  
LIBERTYVILLE  
TRAINING SITE  
VERNON HILLS, ILLINOIS

40 0 40  
SCALE FEET

FIGURE 3  
NIKE MISSILE  
MAGAZINES LAYOUT

DWG DATE: 08/08/02 NAME: 0161001G013



## 2.2 Previous Investigations

Area 6A was investigated during the Gray Sites Investigation and the Gray Sites Addendum Investigation (*Final Gray Sites Investigation Report* and the *Final Gray Sites Addendum Part 2*, EnSafe, 2000). During these investigations, Magazine Alpha was empty and accessible for entry, inspection, and sampling. Until June 2001, Magazines Bravo and Charlie were filled with water and were inaccessible. In June 2001, under a license from the Navy, the Village of Vernon Hills pumped most of the water from Magazines Bravo and Charlie. During pumping, evidence of petroleum product was observed in the last 2 to 3 feet of water in each magazine. The Village ceased its operations and the Navy returned to the site to address the newly identified environmental issues.

An investigation to assess the interior of Magazines Bravo and Charlie and to determine whether contamination existed outside the magazines was conducted in July 2001. As part of the process, soil and groundwater samples were collected from the backfill around both magazines. The analytical results, presented in the *Area 6A NIKE Missile Magazines Investigation Report* (EnSafe, 2001), indicated SVOCs exceeding Libertyville Screening Levels (LSLs) in backfill soil around the magazines. LSLs are risk-based concentrations protective of a residential property use scenario. The detected SVOCs are those commonly present in petroleum products and were thought to be the result of waterproofing material scraped off the exterior walls of the magazines during sampling. Based on these results and discussions with the Base Realignment and Closure Cleanup Team (BCT), the Navy decided to collect additional samples 5 feet from the magazine walls to assess potential impact to site soil from this material or other potential contaminant sources associated with the magazines.

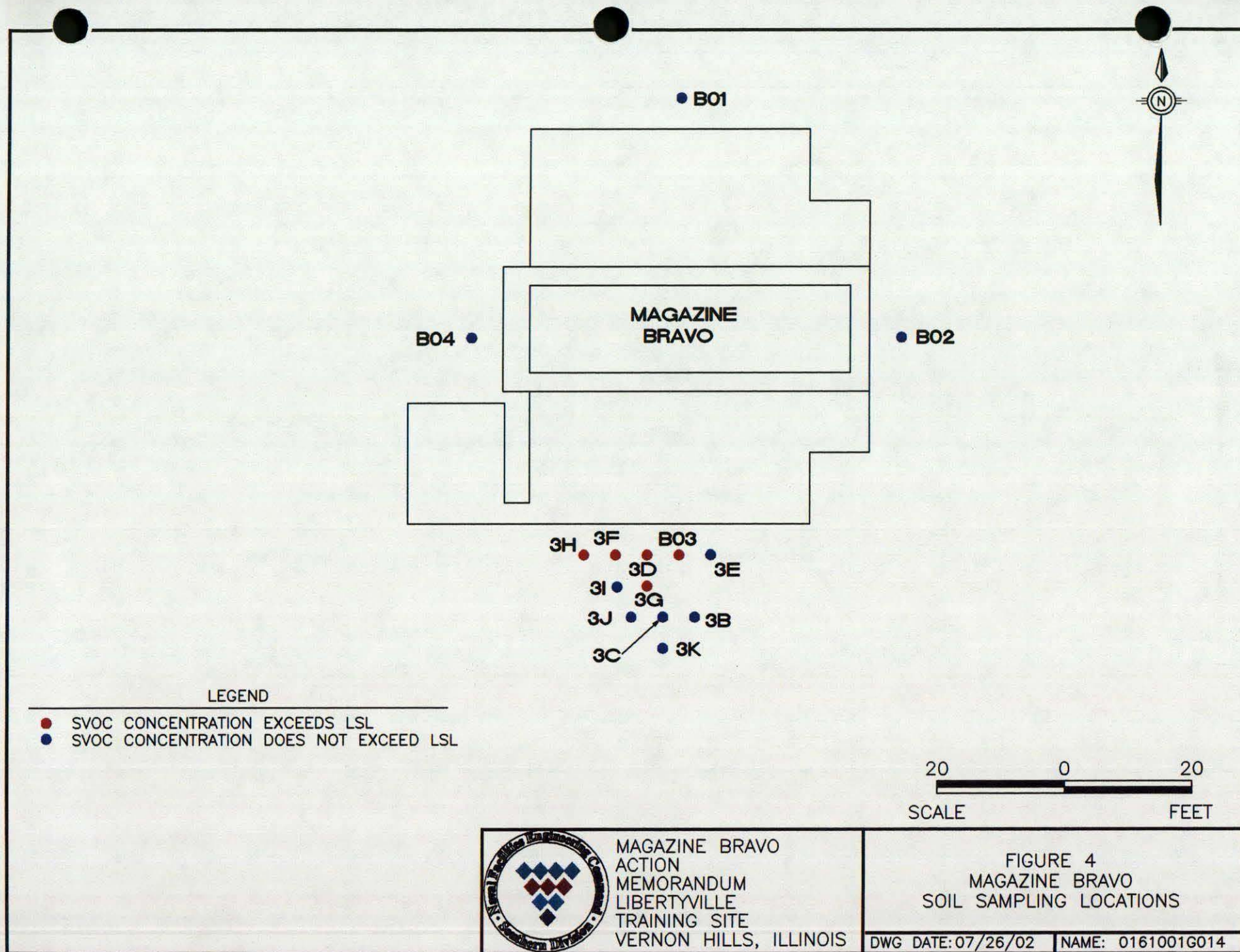
Because samples from Magazine Bravo contained contaminants exceeding LSLs, Magazine Bravo was investigated further from April to July 2002. In all, 14 soil borings were installed around Magazine Bravo during three phases of delineation sampling (see Figure 4). Soil from these borings was sampled and analyzed for target compound list (TCL) volatile organic compounds (VOCs); TCL SVOCs, including polynuclear aromatic hydrocarbons (PAHs) using low detection limits; TCL polychlorinated biphenyls (PCBs); and target analyte list (TAL) metals. The Synthetic Precipitation Leaching Procedure was conducted for six metals and soil samples were also analyzed for pH to determine the appropriate LSL screening level. Four temporary monitoring wells and one permanent monitoring well, shown on Figure 5, were installed and sampled for TCL VOCs; TCL SVOCs, including PAHs at low detection limits; TCL PCBs; and TAL metals.

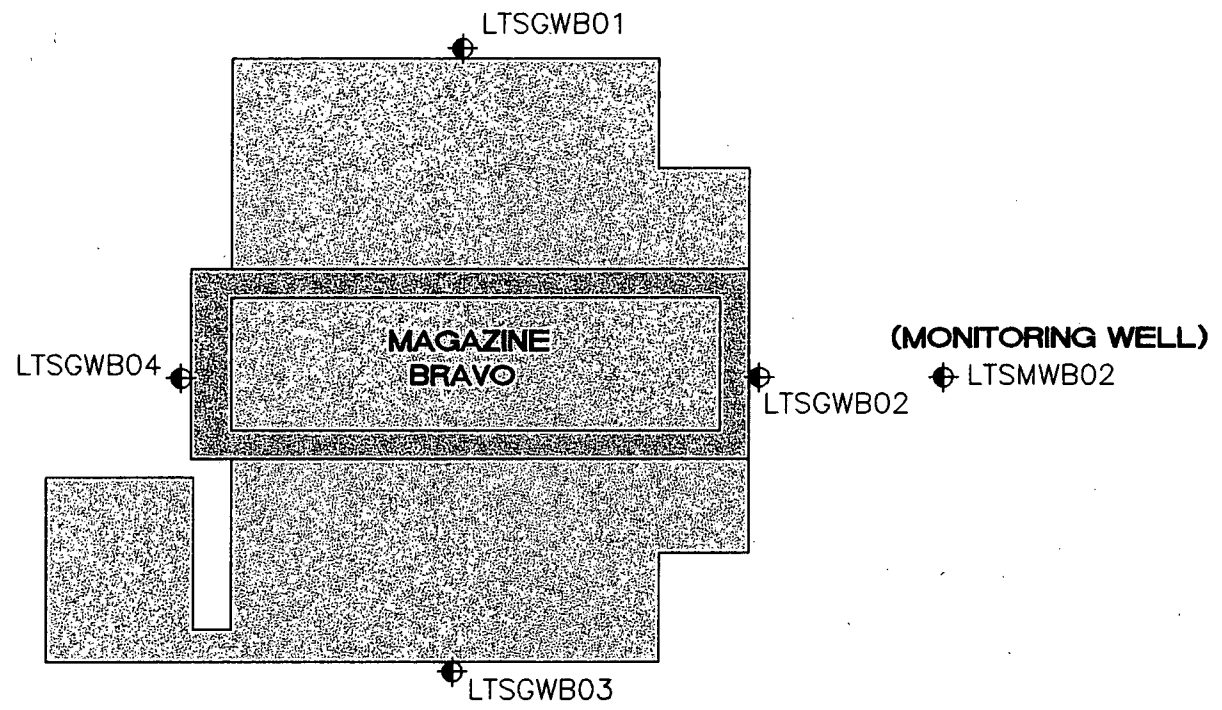
### **2.3 Sampling Results**

As shown on Figure 4, SVOCs exceeded LSLs in samples from five of the soil borings. These exceedances occurred at depths ranging from 12 to 16 feet below ground surface. No groundwater samples had contaminant concentrations that exceeded LSLs. Soil exceedances are summarized in Table 1. Tables 2 through 6 present the sampling results for all constituents detected at Magazine Bravo during the 2001 and 2002 investigations of the site. A complete set of analytical results can be found in Appendix A.

### **2.4 Release or Threatened Release into the Environment of a Hazardous Substance, Pollutant, or Contaminant**

Soil sampling results at Magazine Bravo showed SVOC concentrations above LSLs. Future site residents could be exposed to this soil contamination through incidental ingestion, dermal contact, or dust inhalation. The source of this contamination is thought to be associated with magazine construction activities.





LEGEND  
⊕ GROUNDWATER SAMPLE LOCATION

  
MAGAZINE BRAVO  
ACTION  
MEMORANDUM  
LIBERTYVILLE  
TRAINING SITE  
VERNON HILLS, ILLINOIS

20 0 20  
SCALE FEET

FIGURE 5  
MAGAZINE BRAVO  
GROUNDWATER SAMPLE LOCATIONS  
DWG DATE: 08/08/02 NAME: 0161001G015

Final Action Memorandum and Site Evaluation  
 NIKE Missile Magazine Bravo in Area 6A  
 Libertyville Training Site  
 August 30, 2002

Table 1 SVOC Concentrations in Magazine Bravo Soil (µg/kg)							
Sample Location	Sample Depth (feet)	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(a)pyrene	Dibenz(a,h)anthracene	3-Methylphenol/ 4-Methylphenol	Carbazole
B03	12 -14	<b>2,000 D</b>	<b>1,700 D</b>	<b>1,900 D</b>	<b>370</b>	ND	ND
3D	14-16	300 J	170 J	<b>230 J</b>	50 J	ND	87 J
3F	14-16	80	57	<b>67</b>	ND	ND	35 J
3G	12-14	5.5 J	5.6 J	5.2 J	ND	<b>630 J</b>	<b>15,000</b>
3H	14-16	300	230	<b>260</b>	57	ND	62 J
LSL		620	620	62	62	240	2,800

**Notes:**

µg/kg = micrograms per kilogram  
 D = Diluted sample.  
 J = Estimated value.  
 ND = Not detected.  
 LSL = Libertyville Screening Level.  
**Bold** = Concentration exceeds LSL.

Table 2  
2001  
Soil Samples South of Magazine Bravo

Organic Compounds			
Constituent	LSL	LTSSB B0305	LTSSB B0314
<b>Low Level PAHs</b>			
Naphthalene	18,000	2.3 J	11
Acenaphthene	2,900,000	2.0 J	330
Fluorene	2,600,000	2.8 J	450
Phenanthrene	1,100,000	14	3800 D
Anthracene	22,000,000	ND	1600 D
Fluoranthene	2,300,000	15	4900 D
Pyrene	2,300,000	13	4600 D
Chrysene	62,000	7.1 J	1900 D
Benzo(a)anthracene	620	2.4 J	<b>2000 D</b>
Benzo(b)fluoranthene	620	5.3 J	<b>1700 D</b>
Benzo(k)fluoranthene	6,200	2.7 J	1500 D
Benzo(a)pyrene	62	1.7 J	<b>1900 D</b>
Indeno(1,2,3-cd)pyrene	620	7.3 J	530
Dibenz(a,h)anthracene	62	ND	<b>370</b>
Benzo(g,h,i)perylene	2,300,000	2.4 J	650
2-Methylnaphthalene	290,000	2.0 J	21
1-Methylnaphthalene	NA	1.4 J	14
<b>Semivolatile Organic Compounds</b>			
Carbazole	2,800	ND	ND
<b>Volatile Organic Compounds</b>			
Acetone	16,000	26	23
<b>Polychlorinated Biphenyls</b> Not detected			

Inorganic Compounds					
Constituent	LSL	Bkgd 6"-10'	Bkgr 10' - 60'	LTSSB B0305	LTSSB B0314
<b>Metals</b>					
Aluminum	76,000	17,985	8,392	11,600	10,500
Arsenic	0.39	29.9	11.8	7.8	8.2
Barium	1,200	147.6	86.38	65.3 J	65.2 J
Beryllium	150	1.26	0.7	0.6 J	0.57 J
Cadmium	37	0.34	2.1	0.26 J	0.13 J
Calcium	EN	104,000	110,922	48,600	45,800
Chromium	210	31.3	23.8	19.3	18.3
Cobalt	4,700	25.4	13.1	11	10.8
Copper	2,900	55.7	44.7	22.9	21.5
Iron	EN	53,577	20,936	21,700	24,500
Lead	400	27.9	14.9	15.5 J	12.5 J
Magnesium	EN	36,100	63,513	26,700	25,700
Manganese	1,800	2,191	928	640	802
Nickel	1,500	66.6	34.9	25.9 J	25.9 J
Potassium	EN	17,905	3,180	2,530 J	2,110 J
Selenium	8.8	2.11	NA	0.27 J	ND
Sodium	EN	NA	270	308 J	333 J
Thallium	5.2	NA	NA	2.2	1.7 J
Vanadium	550	49.4	20.6	29.3	28.5
Zinc	7,200	100.46	399	74.3 J	53.3 J

SPLP Metal	Class II Soil to GW Migration	LTSSB B0305	LTSSB B0314
Chromium	1	ND	ND
Cobalt	1	ND	ND
Lead	0.1	ND	ND
Manganese	10	0.085	0.19
Vanadium	0.1	ND	0.008 J

*Notes:*

Only detected constituents are presented.

LSL = Libertyville screening levels.

Units = Organics ug/kg; Inorganics = mg/kg

ND = Not detected.

J = Estimated value.

**Bold** = Concentration exceeds LSL.

NA = Not Available

Table 3  
June 2002  
Phase I Delineation  
Soil Samples South of Magazine Bravo - Organics

Constituent	LSL	LTSSB B3B12	LTSSB B3B14	LTSSB B3B16	LTSSB B3C12	LTSSB B3C14	LTSSB B3C16	LTSSB B3D12	LTSSB B3D14	LTSSB B3D16	LTSCB B3D16	LTSSB B3E12	LTSSB B3E14	LTSSB B3E16
<b>Low Level PAHs</b>														
Naphthalene	18,000	1.6 J	ND	ND	2.4 J	ND	ND	20	4.3 J	26J	56J	7.8	26	9.1
Acenaphthene	2,900,000	ND	ND	ND	17	ND	ND	18	12	74J	220J	15	29	22
Fluorene	2,600,000	ND	ND	ND	16	ND	ND	15	12	75J	240J	21	29	18
Phenanthrene	1,100,000	4.6 J	3.2 J	4.1 J	66	1.8 J	6.2 J	71	60	220J	400J	96	110	72
Anthracene	22,000,000	ND	ND	ND	26	ND	ND	30	19	120J	360J	23	27	21
Fluoranthene	2,300,000	3.6 J	ND	2.4 J	87	ND	ND	85	62	300J	700J	98	52	78
Pyrene	2,300,000	4.7 J	7.2 J	7.4 J	71	6.5 J	3.4 J	75	55	240J	550J	62	41	63
Chrysene	62,000	3.5 J	8.7	9.8	31	7.8	5.0 J	34	27	110J	260J	9.1	20	33
Benzo(a)anthracene	620	ND	ND	ND	32	ND	ND	35	27	120J	300J	6.3 J	17	32
Benzo(b)fluoranthene	620	ND	2.3 J	3.2 J	22	2.7 J	ND	24	21	74J	170J	5.2 J	19	33
Benzo(k)fluoranthene	6,200	1.7 J	ND	ND	22	ND	ND	23	16	92J	230J	ND	ND	ND
Benzo(a)pyrene	62	ND	ND	2.5 J	26	ND	ND	28	22	<b>97J</b>	<b>230J</b>	3.4 J	14	24
Indeno(1,2,3-cd)pyrene	620	ND	ND	1.6 J	12	ND	ND	13	10	44J	120J	1.7 J	8.3	13
Dibenz(a,h)anthracene	62	ND	ND	ND	4.8 J	ND	ND	4.8 J	4.1 J	14J	50J	ND	3.0 J	3.2 J
Benzo(g,h,i)perylene	2,300,000	2.6 J	5.0 J	5.1 J	13	5.9 J	3.8 J	15	11	41J	100J	4.4 J	10	12
2-Methylnaphthalene	290,000	0.93 J	1.1 J	ND	3.8 J	0.87 J	1.8 J	8.7	3.6 J	7.9J	14J	6.3 J	10	4.7 J
1-Methylnaphthalene	NA	ND	ND	ND	2.9 J	ND	1.5 J	6.5 J	2.9 J	5.0 J	8.9	4.4 J	6.2 J	3.3 J
<b>Semivolatile Organic Compounds</b>														
Dibenzofuran	76,000	ND	ND	ND	ND	ND	ND	ND	ND	83 J	55 J	ND	ND	40 J
Carbazole	2,800	ND	ND	ND	ND	ND	ND	ND	ND	130 J	87 J	ND	ND	56 J
bis(2-Ethylhexyl)phthalate	35,000	ND	ND	ND	ND	ND	ND	ND	60 J	ND	ND	ND	ND	ND
<b>Volatile Organic Compounds</b>														
Acetone	16,000	13J	ND	ND	10J	ND	ND	8J	11	12	9 J	11J	12J	ND
<b>Polychlorinated Biphenyls</b>		None detected in any sample												

**Notes:**

Only detected constituents are presented.

LSL = Libertyville screening levels.

Units =  $\mu\text{g/kg}$

ND = Not detected.

J = Estimated value.

**Bold** = Concentration exceeds LSL

NA = Not Available

Table 4  
June 2002  
Phase I Delineation  
Soil Samples South of Magazine Bravo - Metals

Constituent	LSL	Bkgd 6"-10'	Bkgd 10'-60'	LTSSB B3B12	LTSSB B3B14	LTSSB B3B16	LTSSB B3C12	LTSSB B3C14	LTSSB B3C16	LTSSB B3D12	LTSSB B3D14	LTSSB B3D16	LTSCB B3D16	LTSSB B3E12	LTSSB B3E14	LTSSB B3E16
<b>Metals</b>																
Aluminum	76,000	17,985	8,392	10,400	9,310	7,980	9,830	8,400	10,100	10,900	9,290	10,300	9,740	11,100	9,530	9,750
Antimony	20	1.5	0.94	ND	ND	ND	ND	ND	ND	1.1J	ND	ND	ND	ND	ND	ND
Arsenic	0.39	29.9	11.8	9.3J	5.7J	8.5J	<b>22.3J</b>	6.9J	8.9J	9.6	7.8	6.9	7.7	6.1J	7.2J	6.9J
Barium	1,200	147.6	86.38	61.6	40.7J	39.1J	65.8	33.8J	54.6	83.4	60.6	61.9	56.6	67	51.4	55.3
Beryllium	150	1.26	0.7	0.51J	0.43J	0.37J	0.48J	0.38J	0.48J	0.61J	0.53J	0.54J	0.53J	0.53J	0.44J	0.46J
Cadmium	37	0.34	2.1	0.18J	0.13J	ND	0.18J	0.11J	0.12J	ND	ND	ND	0.18J	0.16J	0.12J	0.14J
Calcium	EN	104,000	110,922	52,900	66,400	70,500	55,200	66,800	55,100	53,600	63,500	56,000	64,700	36,400	45,500	59,400
Chromium	210	31.3	23.8	17.2	16.4	15	17	15.7	17.1	18.1	16.6	17.3	16.7	18	15.9	16.6
Cobalt	4,700	25.4	13.1	10.7	9.8J	9.4J	17	8.5J	10.4J	14.2J	11J	11.2J	9.9J	9J	9.6J	10.1J
Copper	2,900	55.7	44.7	29.9	23.8	25	23.9	23.2	28.7	24.1	23.3	22.8	26.3	24.3	22.3	24
Iron	EN	53,577	20,936	23,600	18,300	19,400	<i>33,400</i>	18,600	<i>22,100</i>	<i>24,800</i>	<i>22,400</i>	<i>21,500</i>	<i>23,200</i>	19,100	20,100	20,200
Lead	400	27.9	14.9	16.6J	12.2J	14.3J	13.8J	10.8J	13.6J	16.6J	12.2J	13.5J	15.3J	12.7J	12.3J	13.2J
Magnesium	EN	36,100	63,513	31,100	40,000	40,200	35,300	39,400	32,900	27,900	34,100	30,800	35,200	20,200	27,300	34,800
Manganese	1,800	2191	928	643	626	593	808	540	633	1000	789	647	784	516	557	686
Nickel	1,500	66.6	34.9	26.4	22.6	23.1	32.8	24.1	25.6	26.6	25.2	25.2	23.7	22.2	23.1	24.2
Potassium	EN	17,905	3,180	2,150J	2,990J	2,520J	2,780J	2,720J	2,390J	2,110J	2,300J	2,260J	2,100J	1,700J	1,960J	2,350J
Selenium	8.8	2.11	NA	ND	0.28J	ND	0.31J	ND	0.16J	0.36J	0.4J	0.33J	0.41J	ND	ND	ND
Sodium	EN	NA	270	<i>274J</i>	245J	240J	<i>295J</i>	216J	210J	142J	168J	154J	171J	252J	ND	237J
Thallium	5.2	NA	NA	ND	ND	ND	ND	0.25J	0.23J	1.8J	1.8J	1.3J	1.2J	ND	ND	ND
Vanadium	550	49.4	20.6	24.1	18.6	17.2	21.3	17.8	21.9	27.8J	23.7	23.7J	24J	23.2	20.8	21.4
Zinc	7,200	100.46	399	60.9	45	46.9	58	45.5	52.5	62.2J	48.6	55.6J	96.5J	58.8	49.9	53.9
<b>SPLP Metals</b>	<b>Class II Soil to GW Migration</b>															
Chromium	1.0	NA	NA	0.14J	ND	0.017J	ND	ND	0.016J	0.013J	0.01J	0.038J	0.014J	ND	0.019J	0.026J
Cobalt	1.0	NA	NA	0.005J	ND	0.006J	ND	ND	0.007J	ND	ND	0.018J	0.005J	ND	0.008J	0.013J
Lead	0.1	NA	NA	0.0057J	ND	0.0069J	ND	ND	ND	0.0067J	0.0057J	0.026	0.0097	ND	0.01	0.02
Manganese	10.0	NA	NA	0.23	0.018J	0.097	0.1	ND	0.14	0.25	0.17	0.51	0.24	0.15	0.28	0.35
Vanadium	0.1	NA	NA	0.019J	ND	0.02J	0.006J	ND	0.021J	0.021J	0.016J	0.056	0.023J	0.007J	0.027J	0.038J

**Notes:**

Only detected constituents are presented.

LSL = Libertyville screening levels.

Bkgd = Background.

Metals units = mg/kg; SPLP metals units = mg/L.

ND = Not detected.

J = Estimated value.

EN = Essential Nutrient.

NA = Not available / not applicable.

**Bold** = Concentration exceeds LSL (and background, when background is available).

*Italics* = Concentration exceeds background.



**Table 5**  
**July 2002**  
**Phase II Delineation**  
**Soil Samples South of Magazine Bravo - Organics**

Constituent	LSL	LTSSB B3D18	LTSSB B3F14	LTSSB B3F16	LTSSB B3F18	LTSSB B3G10	LTSSB B3G12	LTSSB B3G14	LTSCB B3G14	LTSSB B3G16	LTSSB B3G18	LTSSB B3H14	LTSSB B3H16	LTSSB B3H18
<b>Low Level PAHs</b>														
Naphthalene	18,000	26	ND	13	7.4J	12	9.5	6.3J	4.8J	8.1	5.2J	5.7J	81	15
Acenaphthene	2,900,000	4.0J	5.0J	39	ND	7.7J	13	24J	9J	10	ND	9.4	120	3.1J
Fluorene	2,600,000	5.7J	7.8	40	ND	11	14	34J	8.6J	11	ND	9.5	140	3.1J
Phenanthrene	1,100,000	31	50	170	20	68	55	44J	19J	60	17	42	650	25
Anthracene	22,000,000	3.4J	14	67	ND	14	14	24J	7.1J	16	ND	9.7	260	ND
Fluoranthene	2,300,000	11	42	230	ND	79	38	44J	17J	46	1.8J	37	760	3.1J
Pyrene	2,300,000	10	36	140	3.5J	59	29	35J	14J	33	3.5J	25	650	4.6J
Chrysene	62,000	11	23	76	6.8J	33	14	16J	6.7J	20	8.4	18	270	7.5J
Benzo(a)anthracene	620	4.4J	19	80	ND	29	12	15J	5.5J	15	ND	13	300	ND
Benzo(b)fluoranthene	620	6.9J	25	57	ND	28	10	14J	5.6J	9	3.0J	10	230	5.1J
Benzo(k)fluoranthene	6,200	ND	ND	49	ND	22	8.8	9.2J	3.3J	9.9	ND	9.8	180	3.3J
Benzo(a)pyrene	62	ND	ND	67	ND	28	11	13J	5.2J	ND	ND	ND	260	4.9J
Indeno(1,2,3-cd)pyrene	620	ND	17	28	ND	20	13	15J	10J	15	ND	14	95	ND
Dibenz(a,h)anthracene	62	ND	ND	ND	ND	14	ND	12J	ND	ND	ND	11	57	ND
Benzo(g,h,i)perylene	2,300,000	4.1J	11	21	3.3J	12	5.5J	6.3J	2.6J	9.9	4.3J	7.1J	96	4.3J
2-Methylnaphthalene	290,000	22	1.0J	8	28	4.6J	5.3J	4.2J	5.6J	4.7J	11	4.3J	20	26
1-Methylnaphthalene	NA	15	ND	5.4J	21	3.4J	3.4J	2.7J	4.1J	3.6J	7.6J	3.4J	12	20
<b>Semivolatile Organic Compounds</b>														
3-Methylphenol/4-Methylphenol	240	ND	ND	ND	ND	ND	ND	ND	630J	ND	ND	ND	ND	ND
Carbazole	2,800	32J	ND	35J	ND	ND	ND	ND	15,000	ND	ND	ND	62J	ND
2-Methylnaphthalene	290,000	ND	ND	ND	ND	ND	ND	ND	5,100	ND	ND	ND	ND	ND
Dibenzofuran	76,000	ND	ND	ND	ND	ND	ND	ND	10,000	ND	ND	ND	ND	ND
Di-n-Butylphthalate	2,300,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	35J
<b>Volatile Organic Compounds</b>														
Acetone	16,000	14	14	14	12	23	10	16	19	12J	10	ND	13	ND
Polychlorinated Biphenyls		None detected in any sample												

**Notes:**

Only detected constituents are presented. This data has not been validated.

LSL = Libertyville screening levels.

Units = µg/kg

ND = Not detected.

J = Estimated value.

**Bold** = Concentration exceeds LSL

NA = Not Available

Table 5  
July 2002  
Phase II Delineation  
Soil Samples South of Magazine Bravo - Organics

Constituent	LSL	LTSSB B3I14	LTSSB B3I16	LTSSB B3I18	LTSSB B3J10	LTSCB B3J10	LTSSB B3J12	LTSSB B3J14	LTSSB B3K10	LTSSB B3K12	LTSSB B3K14
<b>Low Level PAHs</b>											
Naphthalene	18,000	2.7J	ND	5.8J	2.0J	8.0J	ND	ND	3.2J	11	ND
Acenaphthene	2,900,000	ND	ND	ND	ND	13J	ND	ND	ND	10	ND
Fluorene	2,600,000	1.4J	ND	2.3J	2.1J	19J	ND	ND	2.3J	14	ND
Phenanthrene	1,100,000	11	7.4J	17	12J	69J	4.8J	1.5J	12	99	5.4J
Anthracene	22,000,000	ND	1.8J	3.2J	2.6J	23J	ND	ND	2.7J	24	ND
Fluoranthene	2,300,000	2.6J	6.9J	12	15J	120J	3.0J	ND	16	150	ND
Pyrene	2,300,000	3.6J	6.7J	9.8	12J	94J	3.4J	3.6J	10	120	2.2J
Chrysene	62,000	3.7J	4.3J	7.4J	7.6J	42J	3.5J	4.6J	7.6J	69	4.4J
Benzo(a)anthracene	620	ND	2.9J	5.7J	6.7J	39J	ND	ND	6.7J	70	ND
Benzo(b)fluoranthene	620	2.9J	3.4J	5.2J	8.1J	29J	ND	3.1J	7.5J	60	ND
Benzo(k)fluoranthene	6,200	ND	2.1J	4.0J	5.1J	28J	ND	ND	5.0J	53	ND
Benzo(a)pyrene	62	ND	3.4J	ND	6.9J	34J	ND	ND	5.9J	62	ND
Indeno(1,2,3-cd)pyrene	620	ND	ND	11	11J	24J	ND	ND	ND	25	ND
Dibenz(a,h)anthracene	62	ND	ND	ND	ND	15J	ND	ND	ND	19	ND
Benzo(g,h,i)perylene	2,300,000	2.2J	3.1J	4.1J	2.9J	18J	ND	2.9J	2.4J	18	2.0J
2-Methylnaphthalene	290,000	4.6J	ND	12	2.5J	4.8J	ND	ND	1.2J	3.5J	ND
1-Methylnaphthalene	NA	6.4J	ND	8.7	1.7J	3.2J	ND	ND	ND	2.4J	ND
<b>Semivolatile Organic Compounds</b>											
Dibenzofuran	76,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	2,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	290,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	76,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-Butylphthalate	2,300,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Volatile Organic Compounds</b>											
Acetone	16,000	8	ND	10	11	10	18	ND	12	12J	10
Polychlorinated Biphenyls		None detected in any sample									

**Notes:**

Only detected constituents are presented. This data has not been validated.

LSL = Libertyville screening levels.

Units =  $\mu\text{g}/\text{kg}$

ND = Not detected.

J = Estimated value.

**Bold** = Concentration exceeds LSL

NA = Not Available

Table 6  
July 2002  
Phase II Delineation  
Soil Samples South of Magazine Bravo - Metals

Constituent	LSL	Bkgd 6"-10'	Bkgd 10'-60'	LTSSB B3D18	LTSSB B3F14	LTSSB B3F16	LTSSB B3F18	LTSSB B3G10	LTSSB B3G12	LTSSB B3G14	LTSCB B3G14	LTSSB B3G16	LTSSB B3G18	LTSSB B3H14	LTSSB B3H16	LTSSB B3H18
<b>Metals</b>																
Aluminum	76,000	17,985	8,392	6,190J	7,590J	8,750J	6,430J	10,700J	10,600J	9,270J	10,600J	9,260J	7,650J	11,000J	8,900J	7,470J
Arsenic	0.39	29.9	11.8	8.4J	11.7J	7.2J	6.7J	7.3J	7.9J	7.8J	6.9J	8J	7.9J	8.7J	7.1J	7.0J
Barium	1,200	147.6	86.38	27.7J	73.8	50.1	31.1J	57.5	47.3	40.7J	61.4	45.5	33.4J	64.6	53	35.6J
Beryllium	150	1.26	0.7	0.32J	0.45J	0.46J	0.33J	0.53J	0.54J	0.48J	0.56J	0.48J	0.40J	0.55J	0.45J	0.40J
Cadmium	37	0.34	2.1	ND	ND	ND	ND	0.12J	0.15J	ND	ND	0.086J	ND	0.090J	0.096J	ND
Calcium	EN	104,000	110,922	75,200	69,600	57,300	73,900	51,800	57,600	62,400	43,100	62,100	74,900	50,400	57,400	78,200
Chromium	210	31.3	23.8	11.9	15	15.7	12.8	17.6	17.8	16.2	17	16.3	14.4	18	15.4	13.9
Cobalt	4,700	25.4	13.1	8.0J	10.4J	9.9J	9.2J	9.5J	9.9J	9.9J	9.1J	9.8J	10.7J	14.1	9.8J	9.1J
Copper	2,900	55.7	44.7	19.7	23.8	23.7	21.5	23.9	25	24	25.3	25.4	22.1	24.7	23.3	22.6
Iron	EN	53,577	20,936	19,200	21,100	19,400	16,900	20,900	21,900	19,500	20,700	20,800	18,100	21,400	20,100	17,200
Lead	400	27.9	14.9	11.8J	14.3J	12.7J	10.8J	15.0J	13.3J	12.5J	12.6J	12.6J	11.2J	13.5J	14.9J	11.4J
Magnesium	EN	36,100	63,513	39,900	38,100	32,300	38,800	29,500	33,600	35,800	24,700	36,100	41,000	29,500	33,100	35,500
Manganese	1,800	2191	928	599	703	669	595	636	673	693	487	635	648	602	653	600
Nickel	1,500	66.6	34.9	19.7J	23.9J	24.5J	22.1J	24.2J	25.6J	24.2J	23J	24.5J	25J	28.9J	24J	21.5J
Potassium	EN	17,905	3,180	1,810J	2,220J	2,000J	1,820J	2,400J	2,760J	2,430J	1,690J	2,480J	2,460J	2,440J	1,720J	2,270J
Sodium	EN	NA	270	341J	346J	358J	296J	289J	292J	323J	319J	330J	334J	292J	336J	326J
Thallium	5.2	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	550	49.4	20.6	17.6	22.4	22.7	18.4	26.6	25.7	23	24.1	24.1	20.3	27.1	22.6	19.7
Zinc	7,200	100.46	399	36.4J	48.7J	46.2J	37.7J	54.8J	52J	46.6J	50.2J	53.1J	43.8J	54.1J	50.8J	37.2J
<b>SPLP Metals</b>	<b>Class II Soil to GW Migration</b>															
Chromium	1.0	NA	NA	0.016J	0.012J	0.016J	0.018J	ND	0.013J	ND	0.017J	ND	ND	0.010J	0.032J	ND
Cobalt	1.0	NA	NA	0.005J	ND	0.005J	0.006J	ND	ND	ND	0.005J	ND	ND	ND	0.013J	ND
Lead	0.1	NA	NA	ND	ND	0.013	0.0066J	ND	ND	ND	0.0061J	ND	ND	ND	0.02	ND
Manganese	10.0	NA	NA	0.086	0.16	0.18	0.12	0.11	0.17	0.058	0.17	0.063	0.027J	0.19	0.36	0.057
Vanadium	0.1	NA	NA	0.023J	0.018J	0.025J	0.024J	0.007J	0.018J	0.009J	0.025J	0.011J	ND	0.017J	0.048J	0.011J

**Notes:**

Only detected constituents are presented. Data has not been validated.

LSL = Libertyville screening levels.

Bkgd = Background.

Metals units = mg/kg; SPLP metals units = mg/L.

ND = Not detected.

B = Estimated value.

EN = Essential Nutrient.

NA = Not available / not applicable.

**Bold** = Concentration exceeds LSL (and background, when background is available).

*Italics* = Concentration exceeds background.

Table 6  
July 2002  
Phase II Delineation  
Soil Samples South of Magazine Bravo - Metals

Constituent	LSL	Bkgd 6"-10'	Bkgd 10'-60'	LTSSB B3I14	LTSSB B3I16	LTSSB B3I18	LTSSB B3J10	LTSCB B3J10	LTSSB B3J12	LTSSB B3J14	LTSSB B3K10	LTSSB B3K12	LTSSB B3K14
<b>Metals</b>													
Aluminum	76,000	17,985	8,392	6,450J	7,090J	7,410J	7,410J	10,600J	10,500J	8,440J	9,030J	8,840J	6,570J
Arsenic	0.39	29.9	11.8	6.3J	7.0J	6.9J	7.4J	7.8J	8.6J	7.1J	2.9J	11.6J	6.3J
Barium	1,200	147.6	86.38	50.9	30.3J	33.1J	42.8	55	46.1	31.1J	31.0J	30.0J	27.1J
Beryllium	150	1.26	0.7	0.35J	0.37J	0.39J	0.40J	0.52J	0.54J	0.44J	0.45J	0.49J	0.34J
Cadmium	37	0.34	2.1	0.21J	ND	0.088J	ND	0.13J	0.13J	ND	0.16J	0.11J	ND
Calcium	EN	104,000	110,922	79,100	71,400	72,200	63,800	50,800	61,200	66,200	65,600	57,900	70,100
Chromium	210	31.3	23.8	13	13.3	14	14	17.6	18	15.5	16.1	16.2	13.1
Cobalt	4,700	25.4	13.1	8.6J	8.8J	9.4J	9.0J	9.4J	8.9J	9.0J	9.2J	11.4	9.3
Copper	2,900	55.7	44.7	21.2	22.8	24.8	21.9	24.6	24.7	22.2	22.6	27.2	21.5
Iron	EN	53,577	20,936	16,900	17,400	17,500	19,100	22,000	21,300	17,900	11,600	24,300	15,700
Lead	400	27.9	14.9	10.6J	10.6J	11.3J	11.6J	13.5J	12.1J	10.1J	13.4J	17.4J	11.0J
Magnesium	EN	36,100	63,513	44,500	38,900	39,200	34,800	30,100	35,500	38,100	37,900	36,300	38,000
Manganese	1,800	2191	928	821	604	608	710	553	604	578	523	490	599
Nickel	1,500	66.6	34.9	21.5J	22.8J	23.2J	22.1J	24.7J	24.3J	24.3J	24.2J	27.5J	21.6J
Potassium	EN	17,905	3,180	1,870J	2,160J	2,350J	1,890J	2,710J	2,910J	2,620J	2,790J	2,290J	1,900J
Sodium	EN	NA	270	309J	344J	367J	303J	316J	316J	327J	255J	294J	281J
Thallium	5.2	NA	NA	ND	1.7 J	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	550	49.4	20.6	18.8	19.5	20.7	20.1	25.6	25.1	21.2	21.3	23.9	19
Zinc	7,200	100.46	399	59J	38.6J	40.2J	40.1J	56.2J	49J	63.3J	70J	56.5J	38.7J
<b>SPLP Metals</b>	<b>Class II Soil to GW Migration</b>												
Chromium	1.0	NA	NA	0.022J	ND	ND	0.020J	0.024J	ND	ND	ND	ND	0.53
Cobalt	1.0	NA	NA	0.008J	ND	ND	0.007J	0.009J	ND	ND	ND	ND	0.021J
Lead	0.1	NA	NA	0.012	ND	ND	0.012	0.012	ND	ND	ND	ND	0.017
Manganese	10.0	NA	NA	0.29	0.034J	0.030J	0.22	0.12	0.030J	ND	ND	ND	0.33
Vanadium	0.1	NA	NA	0.031J	0.007J	0.007J	0.032J	0.036J	0.008J	0.008J	ND	ND	0.074

**Notes:**

Only detected constituents are presented. Data has not been validated.

LSL = Libertyville screening levels.

Bkgd = Background.

Metals units = mg/kg; SPLP metals units = mg/L.

ND = Not detected.

B = Estimated value.

EN = Essential Nutrient.

NA = Not available / not applicable.

**Bold** = Concentration exceeds LSL (and background, when background is available).

*Italics* = Concentration exceeds background.

The proposed removal area is shown on Figures 6 and 7. Based on the sampling results, approximately 111 cubic yards of SVOC-contaminated soil will require removal. Because the extent of contamination has not been fully delineated to the west, confirmation sampling results will be used to determine whether adequate soil volume has been removed. As necessary, additional soil will be removed until confirmation sampling results are equal to or less than the LSLs.

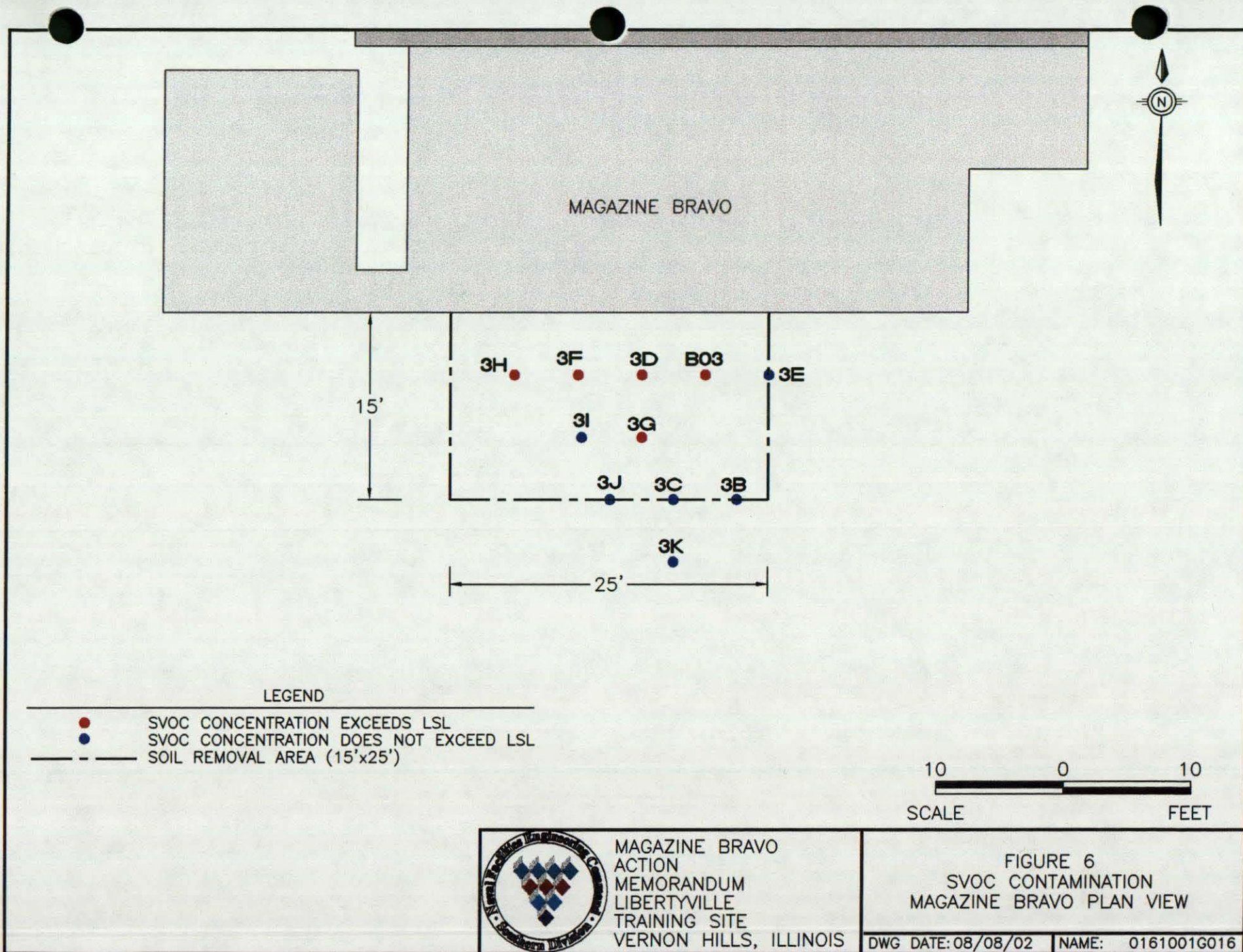
## **2.5 National Priorities List Status**

Magazine Bravo is neither listed nor proposed for listing on the National Priorities List. The LTS has not received, and is not expected to receive, a Hazard Ranking System rating.

## **2.6 Current Actions**

As a result of the July 2001 investigation, the Navy decided to remove accumulated water from the three magazines, remove all remaining equipment and debris from inside the magazines, clean the interiors, and demolish the magazines. The Navy's Remedial Action Contract contractor, CH2M Hill Constructors (CCI), is performing this work. Details of this project are presented in the *Work Plan Addendum No. 1, Nike Missile Magazine Removal*, (CCI, 2002).

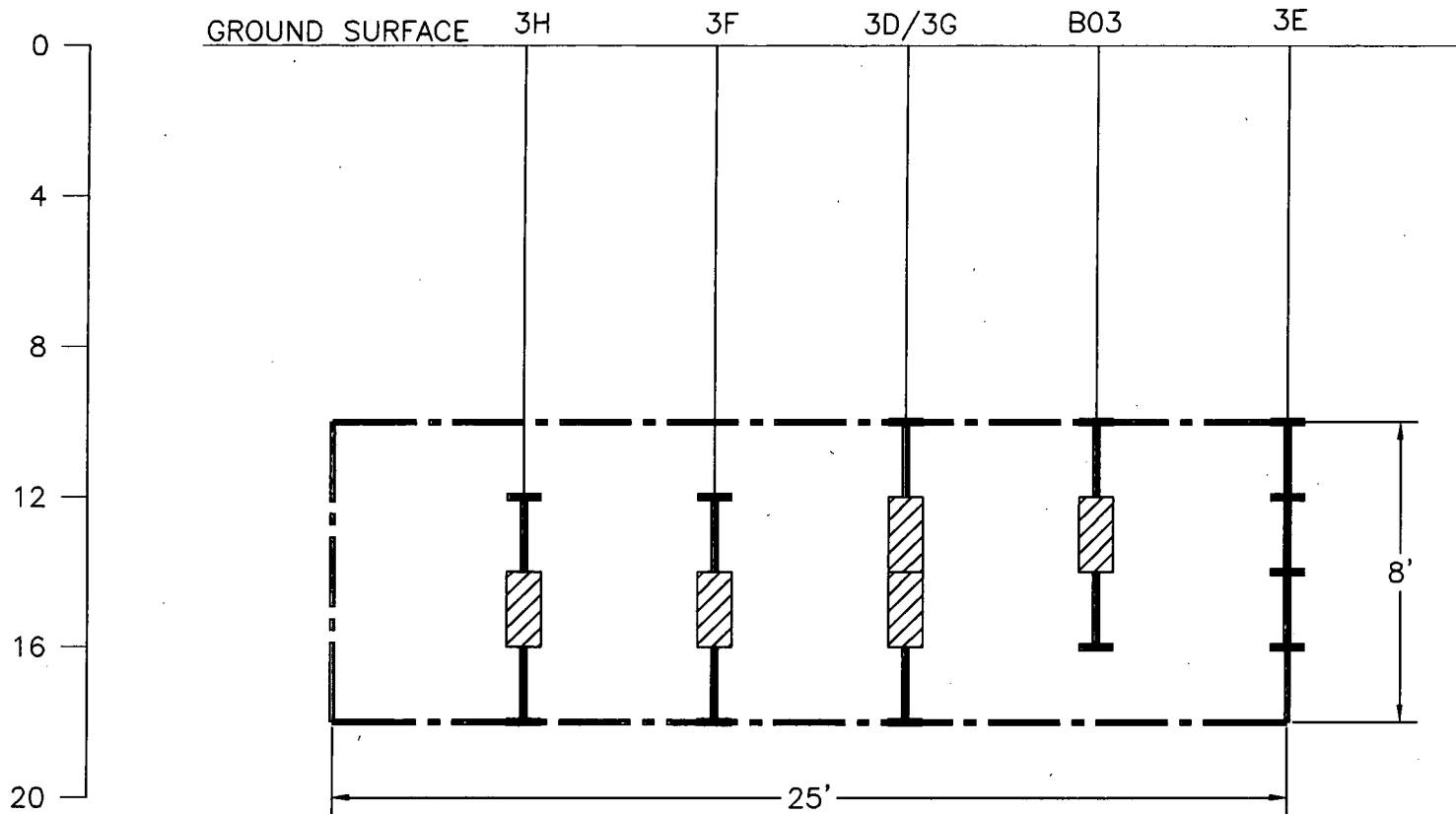
Soil samples collected near Magazine Bravo had SVOC concentrations in excess of LSLs; therefore the site may pose an unacceptable risk to future site users. The anticipated post-cleanup use of the property is storm water detention and recreation. The Village of Vernon Hills desires that the site be remediated for residential/unrestricted use in time to accommodate site redevelopment schedules. Therefore, a time-critical removal action was proposed for Magazine Bravo during a BCT conference call in June 2002.



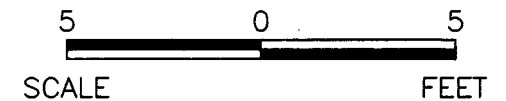
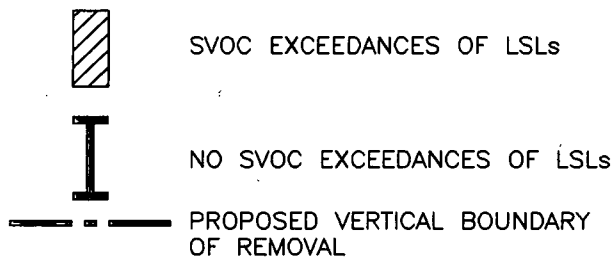
5 FEET SOUTH OF BRAVO WALL

WEST

EAST



LEGEND



MAGAZINE BRAVO  
ACTION  
MEMORANDUM  
LIBERTYVILLE  
TRAINING SITE  
VERNON HILLS, ILLINOIS

FIGURE 7  
SVOC CONTAMINATION  
MAGAZINE BRAVO  
CROSS SECTION VIEW

DWG DATE: 08/08/02 NAME: 0171001G017



## 2.7 State and Federal Authorities' Role

The United States Environmental Protection Agency and the Illinois Environmental Protection Agency concur with the selected time-critical removal action for this site.

## 3.0 THREAT TO PUBLIC HEALTH, WELFARE, OR THE ENVIRONMENT

Because of the time-critical nature of this removal action, a baseline risk assessment was not performed. However, concentrations of SVOCs in soil exceeded LSLs, which are protective of a residential property use scenario. Also, there is a potential for exposure of site trespassers to contaminated soil. Therefore, the Navy will remove all soil at Magazine Bravo in which SVOC concentrations exceed LSLs, which are also protective of site trespassers since they are derived using more conservative residential assumptions for contaminant exposure duration and exposure frequency. The chemicals of concern for this site are the SVOCs listed in Table 1. The cleanup levels for this site will be the SVOC LSLs, which are summarized in Table 7.

Table 7 Magazine Bravo Cleanup Levels (µg/kg)	
Compound	Cleanup Level
Acenaphthene	2,900,000
Acenaphthylene	120,000
Anthracene	22,000,000
Benzo(a)anthracene	620
Benzo(a)pyrene	62
Benzo(b)fluoranthene	620
Benzo(g,h,i)perylene	2,300,000
Benzo(k)fluoranthene	6,200
4-Bromophenyl-phenylether	NA
Butylbenzylphthalate	930,000
Carbazole	2,800
4-Chloro-3-Methylphenol	NA
4-Chloroaniline	700
bis(2-Chloroethoxy)Methane	NA



Table 7 Magazine Bravo Cleanup Levels (µg/kg)	
Compound	Cleanup Level
bis(2-Chloroethyl)Ether	0.4
2-Chloronaphthalene	110,000
2-Chlorophenol	20,000
4-Chlorophenyl-phenylether	NA
2,2-oxybis(1-Chloropropane)	NA
Chrysene	62,000
Di-n-Butylphthalate	2,300,000
Di-n-Octyl-Phthalate	1,200,000
Dibenz(a,h)anthracene	62
Dibenzofuran	76,000
1,2-Dichlorobenzene	43,000
1,3-Dichlorobenzene	1,000
1,4-Dichlorobenzene	3,400
3,3-Dichlorobenzidine	33
2,4-Dichlorophenol	1,000
Diethylphthalate	470,000
Dimethyl Phthalate	380,000
2,4-Dimethylphenol	9,000
4,6-Dinitro-2-Methylphenol	NA
2,4-Dinitrophenol	200
2,4-Dinitrotoluene	0.8
2,6-Dinitrotoluene	0.7
bis(2-Ethylhexyl)phthalate	35,000
Fluoranthene	2,300,000
Fluorene	2,600,000
Hexachlorobenzene	300
Hexachlorobutadiene	6,200
Hexachlorocyclopentadiene	10,000
Hexachloroethane	2,600
Indeno(1,2,3-cd)pyrene	620
Isophorone	8,000
2-Methylnaphthalene	290,000

Table 7 Magazine Bravo Cleanup Levels (µg/kg)	
Compound	Cleanup Level
2-Methylphenol	15,000
4-Methylphenol	240
N-Nitroso-Di-n-Propylamine	0.05
N-Nitrosodiphenylamine	5,600
Naphthalene	18,000
2-Nitroaniline	3,500
3-Nitroaniline	NA
4-Nitroaniline	NA
Nitrobenzene	100
2-Nitrophenol	NA
4-Nitrophenol	NA
Pentachlorophenol	140
Phenanthrene	1,100,000
Phenol	100,000
Pyrene	2,300,000
1,2,4-Trichlorobenzene	53,000
2,4,5-Trichlorophenol	1,400,000
2,4,6-Trichlorophenol	770

**Notes:**

NA = Not available.  
 µg/kg = micrograms per kilogram.

#### **4.0 ENDANGERMENT DETERMINATION**

Contaminants from this site, if not addressed by implementing the response action selected in this Action Memorandum, may endanger public health or welfare based on future property use plans.

#### **5.0 PROPOSED ACTIONS AND ESTIMATED COSTS**

The proposed removal action consists of excavation with offsite disposal in a permitted landfill, and site restoration, which was considered the most feasible, timely, and cost-effective remedy.

##### **5.1 Description of the Proposed Action**

The purpose of this time-critical removal action is to mitigate threats to human health and the environment posed by contaminated soil at Magazine Bravo. The selected removal action combines the following general components:

1. Excavation and stockpiling of the top 10 feet of non-impacted soil (approximately 139 cubic yards) overlying the contaminated soil.
2. Excavation of an 8-foot depth of contaminated soil (approximately 111 cubic yards) starting 10 feet below ground surface immediately south of Magazine Bravo.
3. Sampling the soil for hazardous waste characterization. Based on the results, a landfill will be chosen for disposal in accordance with applicable State of Illinois solid waste regulations.
4. Monitoring of potential hazards during the removal by a certified environmental health and safety officer, and implementation of appropriate precautions to protect human health and the environment.

5. Excavation of all identified soil to the extent indicated in this report unless further sampling shows otherwise.
6. Collection of confirmatory samples in the excavated area to ensure that all contaminated soil is removed. Soil will be removed until samples show that soil concentrations are less than LSLs.
7. Backfilling of the excavated areas with stockpiled soil and additional clean borrow, as needed. The backfilled area will be seeded and mulched to prevent erosion. Precautions will be taken to avoid potential hazards from the excavated areas before they are backfilled.

The proposed removal action — excavation of the contaminated soil and disposal in a permitted landfill — would mitigate the public health threat posed by incidental soil ingestion, dermal contact, or dust inhalation. Excavation of contaminated soil also reduces potential contaminant release to the environment. This action provides long-term protection because all of the contaminated soil will be removed from the site. Confirmatory samples will be collected from the bottom and the west wall of the excavation to ensure that all contaminated soil has been removed. Additional soil removal may be necessary based on the confirmatory sampling results. No post-removal site control activities will be required for this site because all of the contaminated soil will be removed.

Removal of contaminated soil to a landfill is technically feasible. Permits will be required for offsite disposal of contaminated soil, which can be easily removed and deposited in a landfill with minimum technical application. Offsite disposal in a secure, permitted landfill is technically viable because landfill designs are based on standard engineering practices. Construction activities such as excavation, backfilling, and seeding are standard tasks, often used for removal actions, and raise few technical concerns. Personnel and materials required for excavation, transportation, and construction are readily available because the LTS is in a metropolitan area.

The time required to implement the response action is approximately one week. An implementation consideration for this alternative is weather, including rain, which may pose difficulties and delays during excavation.

Public acceptance of this alternative is likely because contaminants would be removed from an uncontrolled environment and placed in an engineered landfill with modern best-achievable technology controls and monitoring equipment. Although fugitive dust is possible during soil excavation, water can be used to control it, if necessary. Other control measures such as cover, hay bales, and silt fences would be implemented to prevent soil erosion in disturbed areas, if necessary.

## **5.2 Contribution to Remedial Performance**

Implementation of the time-critical removal action would be effective in reducing the potential exposure of human populations to hazardous substances. It constitutes a permanent solution that would ensure the overall protection of human health and the environment by removing all contaminated soil from the site. Confirmatory samples will be collected from the bottom and the west wall of the excavation and compared with the LSLs to ensure that all contaminated soil is removed. Once this proposed removal action is completed, no further action will be required at Magazine Bravo.

## **5.3 Applicable or Relevant and Appropriate Requirements (ARARs)**

SARA Section 121(d)(2)(A) mandates that CERCLA site remediation comply with all ARARs. Applicable requirements are specific to the site conditions and satisfy all jurisdictional prerequisites of the law or requirements. Relevant and appropriate requirements do not have jurisdictional authority over the site's circumstances, but are meant to address similar situations and, therefore, are suitable for use there. As outlined by the NCP Part 300.415(I), the Department of the Navy may consider the urgency of the situation and the scope of the removal action to be conducted in determining whether compliance with ARARs is practical.

ARARs are generally divided into three categories: chemical-specific, location-specific, and action-specific. Chemical-specific ARARs apply to individual contaminants. Location-specific ARARs depend on the contaminant's location and potential restrictions on activities conducted in these areas (e.g., wetlands or floodplains). Action-specific ARARs, which govern the remedial action, are usually technology- or activity-based directions or limitations that control actions taken at CERCLA sites.

Some potential ARARs are listed in the preamble to the NCP, as amended in March 1990. Other ARARs and to-be-considered criteria have been added during a search of federal and state environmental requirements and advisories. Table 8 presents ARARs that must be attained or considered as part of this removal action.

#### **5.4 Project Schedule**

The proposed removal action is time-critical because of the need for timely property transfer without deed restriction. Otherwise, construction schedule commitments for redevelopment of the LTS property will be adversely affected.

A removal action work and sampling plan will be prepared by CCI. The removal action is scheduled to begin as soon as regulatory agencies' approval is received. Excavation, confirmatory sampling, and soil disposal will take approximately two days. Unvalidated analytical results of the confirmatory samples will be available one to two days after sampling. Validated results will be available four weeks after sampling. These results will be submitted to IEPA and USEPA for review when fully validated confirmatory sampling results for all sampling locations indicate that all contaminated soil above the LSLs has been removed. Backfilling and regrading activities at the site will not begin until IEPA and USEPA concur that the data is usable, complete, and accurate, and that all contaminated soil has been successfully removed. Backfilling and regrading will require approximately one day for completion. If confirmatory sampling indicates that additional excavation is required, the removal action process could continue one to two weeks longer.

Table 8 Applicable or Relevant and Appropriate Requirements			
Requirements	Status	Requirement Summary	Comment
Federal ARARs			
The Defense Base Closure and Realignment Act of 1990 (P.L. 101-510, 104 Stat. 1808)	Applicable	LTS is closing under BRAC.	Applicable because a removal action is required.
CERFA (P.L. 102-426)	Applicable	Regulations controlling inactive hazardous wastes sites.	Applicable because a removal action is required.
CERCLA (104, 106, 107, 120, 121, 122)	Applicable	Regulations controlling inactive hazardous wastes sites.	Applicable because a removal action is required.
CERCLA 121 (d)(3)	Applicable	CERCLA wastes can only be transferred to facilities that are in compliance with RCRA, TSCA, or other applicable federal and state requirements.	Applicable because a removal action may be required and waste will be hauled offsite to another location.
National Contingency Plan, 40 CFR 300	Applicable	Governs all actions at CERCLA sites.	Applicable because a removal action is required.
Executive Order 12580	Applicable	The Navy has lead authority for CERCLA actions.	Applicable because the Navy is conducting the remedial activities.
RCRA Identification of Hazardous Waste 40 CFR 261	Applicable	Criteria for identifying those solid wastes subject to regulation as hazardous waste under RCRA.	Wastes will be identified as RCRA hazardous waste or non-hazardous waste prior to, and during, remedial activities.
RCRA 40 CFR Parts 264, 265, 268, 270	Relevant and Appropriate	Excavation, disposal and handling of hazardous wastes.	A generator who treats, stores, or disposes of hazardous waste onsite must comply with the applicable standards and permit requirements.

**Table 8**  
**Applicable or Relevant and Appropriate Requirements**

Requirements	Status	Requirement Summary	Comment
<b>Federal ARARs (continued)</b>			
RCRA Land Disposal Restrictions 40 CFR 268	Relevant and Appropriate	Certain classes of waste are restricted from land disposal without acceptable treatment.	Removal of site-excavated soil for land disposal may trigger the regulation. The excavated soil is presumed to be non-hazardous based on initial samples taken during investigations at this site.
Clean Water Act General Pretreatment Regulations for Existing and New Sources of Pollution 40 CFR 403	Applicable	Establishes the limits for pollutant discharge to publicly owned treatment works (POTW) and the requirement for pretreatment, if applicable.	Removal actions may include the discharge of runoff or other flows to a POTW.
<b>State ARARs</b>			
Illinois Environmental Protection Act 45 ILCS 5 Sec 22.01	Applicable	Requires manifest for the transport of special waste.	Any soil removed from the site should be appropriately labeled and manifested.
Illinois Solid and Special Waste Management Regulations IAC, Title 35 Subtitle G Subpart C Part 807.310	Applicable	Hazardous or liquid wastes or sludges may be accepted at a sanitary landfill only if authorized by permit.	Applicable to soil removal activities.
Illinois Solid and Special Waste Management Regulations IAC, Title 35 Subtitle G Subpart E Part 807.501—807.666	Applicable	General provisions for closure and post-closure of waste management sites.	This site meets all requirements for closure under Illinois regulations.



Table 8 Applicable or Relevant and Appropriate Requirements			
Requirements	Status	Requirement Summary	Comment
State ARARs (continued)			
Illinois Solid and Special Waste Management Regulations IAC, Title 35 Subtitle G Part 808.121 and 808.302	Applicable	Requires generators to determine if a waste is a special waste; provides a manifest to the hauler; provides classification of special waste.	When removal is initiated, all waste will be classified and appropriate documents will be provided before the waste leaves the site.
Illinois Environmental Protection Act Title III Water 415 ILCS 5/12	Applicable	No person shall cause or allow the discharge of contaminants into the environment to cause water pollution in Illinois, and no person shall deposit any contaminants on land in such place and manner as to create a water pollution hazard.	Groundwater contamination from site remediation is not a concern since contaminants have been on site for a long period of time and have not adversely impacted groundwater at Areas 6A.
Illinois Water Pollutant Discharge Act 415 ICLS 25	Applicable	Prohibits the discharge of oil or other pollutants into any waters.	Applicable if removal actions generate wastewater to be treated onsite prior to discharge to state waters. Water from any remediation activities may be discharged to the POTW.
Illinois Water Pollution Control Rules Title 35 Subtitle C Chapter I Part 301.104	Applicable	All methods of sample collection, preservation, and analysis shall be consistent with EPA approved methods.	Applicable to all site sampling activities. USEPA methods will be followed.
Illinois Pretreatment Regulations Title 35 Subtitle C Chapter 1 Part 310	Applicable	Establishes requirements for sewer discharge and requires pre-approval from the POTW for discharge.	Water from remediation activities may be discharged to the sewer. Any discharge will comply with the terms of the permit.
Illinois Effluent Guidelines and Standards Title 35 Subtitle C Chapter 1 Part 307	Applicable	Places restrictions on, and provides standards for, the types, concentrations, and quantities of contaminants that can be discharged to the sewers.	Water from remediation activities may be discharged to the sewer. Any discharge will comply with the terms of the permit.

Table 8 Applicable or Relevant and Appropriate Requirements			
Requirements	Status	Requirement Summary	Comment
State ARARs (continued)			
Illinois Groundwater Quality Standards Title 35 Subtitle F Chapter I Part 620	Applicable	Establishes classifications and provides the procedures for the management and protection of groundwater.	Applicable if contaminants are left onsite to ensure that groundwater is protected from potential migration of contaminants. This is not likely, however.
Tiered Approach to Corrective Action Objectives Title 35 subtitle G Chapter I Subchapter F: Risk Based Cleanup Objectives Part 742	To be considered	Provides procedures to evaluate the risk to human health posed by environmental conditions, and develops remedial objectives that ensure such risks achieve acceptable levels.	Applicable to any soil removal objectives. Should be considered when setting remediation goals.

A Removal Action Completion Report will be prepared by CCI in accordance with EPA-540/R94/023, *Superfund Removal Procedures, Removal Response Reporting*, and submitted to the BCT for review. It will be finalized within 60 days after the remedial action is implemented. The project schedule is presented in Table 9.

<p style="text-align: center;"><b>Table 9</b> <b>Proposed Project Schedule: Magazine Bravo Time-Critical Removal Action</b></p>			
<b>Task</b>	<b>Responsible Party</b>	<b>Time Required</b>	<b>Estimated Completion Date</b>
Draft Site Investigation Report	Navy/EnSafe Inc.	30 days	August 30, 2002
BCT Review	IEPA & U.S.EPA	30 days	October 4, 2002
Final Site Investigation Report	Navy/EnSafe Inc.	14 days	October 18, 2002
Draft Action Memorandum	Navy/EnSafe Inc.	14 days	August 9, 2002
BCT Review	IEPA & U.S.EPA	14 days	August 23, 2002
Final Action Memorandum	Navy/EnSafe Inc.	7 days	August 30, 2002
Draft Time-Critical Soil Removal Action Excavation Plan & Sampling & Analysis Plan	Navy/CH2M Hill Constructors	14 days	August 9, 2002
BCT Review	IEPA & U.S.EPA	14 days	August 23, 2002
Final Time-Critical Soil Removal Action Excavation Plan & Sampling & Analysis Plan	Navy/CH2M Hill Constructors	7 days	August 30, 2002
Time-Critical Removal Action & Confirmation Sampling	Navy/CH2M Hill Constructors	7 days	September 6, 2002
Data Validation & Draft Site Closure Report	Navy/CH2M Hill Constructors	45 days	October 15, 2002
BCT Review	IEPA & U.S.EPA	30 days	November 15, 2002
Final Site Closure Report	Navy/CH2M Hill Constructors	14 days	November 29, 2002
Draft Proposed Plan	Navy/EnSafe Inc.	14 days	November 29, 2002
BCT Review	IEPA & U.S.EPA	14 days	December 13, 2002
Final Proposed Plan	Navy/EnSafe Inc.	7 days	December 20, 2002
Proposed Plan - Public Review	Navy/EnSafe Inc.	30 days	January 21, 2003
Draft Decision Document	Navy/EnSafe Inc.	30 days	December 20, 2002
BCT Review	IEPA & U.S.EPA	30 days	January 27, 2003
Final Decision Document	Navy/EnSafe Inc.	14 days	February 7, 2003
Decision Document Signed	Navy, IEPA, & U.S.EPA	30 days	March 14, 2003

## 5.5 Estimated Costs

The estimated costs of the recommended action, excavation with offsite disposal, are summarized in Table 10.

Table 10 Excavation With Offsite Disposal: Cost Summary	
Description	Cost
<b>Contractor</b>	
Work Plan	\$2,000
Removal Action Supervision	\$12,000
Closure Report	\$7,000
Home Office Expenses (Contractor)	\$1,000
Fees (Contractor)	\$3,000
Subtotal	\$25,000
<b>Subcontractor</b>	
Removal Action	\$5,500
Disposal (Special Waste)	\$5,000
Backfill and Restoration	\$3,500
Analytical	\$6,000
Home Office Expenses (Contractor)	\$1,000
Fees (Contractor)	\$2,000
Subtotal	\$23,000
10% Contingency	\$4,800
<b>Total Cost</b>	<b>\$52,800</b>

**Notes:**

All costs are rounded to the nearest hundred dollars.  
 Costs are based on current data.

## 6.0 EXPECTED CHANGE IN THE SITUATION SHOULD ACTION BE DELAYED OR NOT TAKEN

Delayed action at Magazine Bravo will increase the likelihood of contaminant migration from the site. There is also a potential risk of exposure of contaminated soil to future residents, site trespassers, and site workers if no action is taken. In addition, there may be significant costs associated with delay of this action due to construction schedules associated with redevelopment

of this property. Transfer of the property to the community is not possible until the removal action is completed.

## **7.0 OUTSTANDING POLICY ISSUES**

There are no outstanding policy issues for this removal action.

## **8.0 ENFORCEMENT**

No enforcement action is in effect or anticipated at Magazine Bravo. The Navy, the lead agency for these sites, is voluntarily investigating and remediating the site.

## **9.0 RECOMMENDATION**

This decision document represents the selected time-critical removal action for Magazine Bravo in Area 6A at the Libertyville Training Site, Vernon Hills, Illinois. It was developed in accordance with the CERCLA, as amended, and is consistent with the NCP. Conditions at this site meet the NCP section 300.415 (b)(20) criteria for a removal action. This decision is based on the Administrative Record for this site. Agreement with this recommendation will be indicated by signing below.

---

Barbara Nwokike  
Remedial Project Manager  
BRAC Cleanup Team

---

Date

**Appendix A**  
**Analytical Data**

DATALCP3  
08/23/02

LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

Page: 1  
Time: 14:33

LOW PAH		SAMPLE ID ----->	LTS-S-BB01-18	LTS-C-BB01-18	LTS-S-BB02-18	LTS-S-BB02-25	LTS-S-BB03-05	LTS-S-BB03-14	
		ORIGINAL ID ----->	LTSSBB0118	LTSCBB0118	LTSSBB0218	LTSSBB0225	LTSSBB0305	LTSSBB0314	
		LAB SAMPLE ID ---->	S242909*5	S242909*6	S242909*3	S242909*4	S242909*9	S242909*10	
		ID FROM REPORT -->	LTSSBB0118	LTSCBB0118	LTSSBB0218	LTSSBB0225	LTSSBB0305	LTSSBB0314	
		SAMPLE DATE ----->	04/26/02	04/26/02	04/26/02	04/26/02	04/26/02	04/26/02	
		DATE EXTRACTED -->	05/01/02	05/01/02	05/01/02	05/01/02	05/01/02	05/01/02	
		DATE ANALYZED ---->	05/02/02	05/02/02	05/02/02	05/02/02	05/02/02	05/02/02	
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil	
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
CAS #	Parameter	209315	VAL	209315	VAL	209315	VAL	209315	VAL
91-20-3	Naphthalene	1.3	J	1.5	J	6.2	J	2.3	J
91-57-6	2-Methylnaphthalene	7.9	U	8.	U	8.2	J	2.	J
208-96-8	Acenaphthylene	7.9	U	8.	U	8.5	U	7.4	U
83-32-9	Acenaphthene	7.9	U	8.	U	11.	J	2.	J
86-73-7	Fluorene	7.9	U	8.	U	13.	J	2.8	J
85-01-8	Phenanthrene	4.	J	7.1	J	88.	J	14.	J
120-12-7	Anthracene	7.9	U	1.4	J	25.	J	7.4	U
206-44-0	Fluoranthene	3.	J	2.9	J	92.	J	15.	J
129-00-0	Pyrene	4.8	J	4.8	J	87.	J	13.	J
56-55-3	Benzo(a)anthracene	7.9	U	8.	U	38.	J	2.4	J
218-01-9	Chrysene	3.9	J	3.9	J	41.	J	7.1	J
205-99-2	Benzo(b)fluoranthene	7.9	U	8.	U	27.	J	5.3	J
207-08-9	Benzo(k)fluoranthene	7.9	U	8.	U	28.	J	2.7	J
50-32-8	Benzo(a)pyrene	7.9	U	8.	U	33.	J	1.7	J
193-39-5	Indeno(1,2,3-cd)pyrene	7.9	U	8.	U	22.	J	7.3	J
53-70-3	Dibenz(a,h)anthracene	7.9	U	8.	U	19.	U	7.4	U
191-24-2	Benzo(g,h,i)perylene	2.5	J	2.3	J	20.	J	2.4	J
90-12-0	1-Methyl naphthalene	7.9	U	8.	U	5.6	J	1.4	J

\*\*\* Validation Complete \*\*\*

DATALCP3  
08/23/02

LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

Page: 2  
Time: 14:33

LOW PAH		SAMPLE ID ----->	LTS-S-BB04-17	LTS-S-BB04-25	LTS-S-BB3B-12	LTS-S-BB3B-14	LTS-S-BB3B-16	LTS-S-BB3C-12	
		ORIGINAL ID ----->	LTSSBB0417	LTSSBB0425	LTSSBB3B12	LTSSBB3B14	LTSSBB3B16	LTSSBB3C12	
		LAB SAMPLE ID ---->	S242909*7	S242909*8	S243390*4	S243390*5	S243390*6	S243390*1	
		ID FROM REPORT --->	LTSSBB0417	LTSSBB0425	LTSSBB3B12	LTSSBB3B14	LTSSBB3B16	LTSSBB3C12	
		SAMPLE DATE ----->	04/26/02	04/26/02	05/14/02	05/14/02	05/14/02	05/14/02	
		DATE EXTRACTED --->	05/01/02	05/01/02	05/17/02	05/17/02	05/17/02	05/17/02	
		DATE ANALYZED ---->	05/02/02	05/02/02	05/21/02	05/21/02	05/21/02	05/21/02	
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil	
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
CAS #	Parameter	209315	VAL	209315	VAL	209722	VAL	209722	VAL
91-20-3	Naphthalene	2.5	J	5.5	J	1.6	J	7.8	U
91-57-6	2-Methylnaphthalene	9.6		16.		0.93	J	1.1	J
208-96-8	Acenaphthylene	7.8	U	7.7	U	7.8	U	7.8	U
83-32-9	Acenaphthene	2.1	J	7.7	U	7.8	U	7.6	U
86-73-7	Fluorene	3.1	J	7.7	U	7.8	U	7.6	U
85-01-8	Phenanthrene	13.		14.		4.6	J	4.1	J
120-12-7	Anthracene	3.4	J	7.7	U	7.8	U	7.6	U
206-44-0	Fluoranthene	7.	J	7.7	U	3.6	J	2.4	J
129-00-0	Pyrene	8.3		3.	J	4.7	J	7.4	J
56-55-3	Benzo(a)anthracene	2.4	J	7.7	U	7.8	U	7.6	U
218-01-9	Chrysene	5.1	J	5.4	J	3.5	J	9.8	
205-99-2	Benzo(b)fluoranthene	2.1	J	7.7	U	7.8	U	3.2	J
207-08-9	Benzo(k)fluoranthene	7.8	U	7.7	U	1.7	J	7.6	U
50-32-8	Benzo(a)pyrene	2.	J	7.7	U	7.8	U	2.5	J
193-39-5	Indeno(1,2,3-cd)pyrene	7.5	J	7.7	U	7.8	U	1.6	J
53-70-3	Dibenz(a,h)anthracene	7.8	U	7.7	U	7.8	U	7.6	U
191-24-2	Benzo(g,h,i)perylene	3.1	J	3.	J	2.6	J	5.1	J
90-12-0	1-Methyl naphthalene	7.6	J	12.		7.8	U	7.6	U

\*\*\* Validation Complete \*\*\*



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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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LOW PAH		SAMPLE ID ----->	LTS-S-BB3C-14	LTS-S-BB3C-16	LTS-S-BB3D-12	LTS-S-BB3D-14	LTS-S-BB3D-16	LTS-C-BB3D-16
		ORIGINAL ID ----->	LTSSBB3C14	LTSSBB3C16	LTSSBB3D12	LTSSBB3D14	LTSSBB3D16	LTSCBB3D16
		LAB SAMPLE ID ---->	S243390*2	S243390*3	S244037*5	S244037*6	S244037*7	S244037*8
		ID FROM REPORT -->	LTSSBB3C14	LTSSBB3C16	LTSSBB3D12	LTSSBB3D14	LTSSBB3D16	LTSCBB3D16
		SAMPLE DATE ----->	05/14/02	05/14/02	06/07/02	06/07/02	06/07/02	06/07/02
		DATE EXTRACTED -->	05/17/02	05/17/02	06/17/02	06/17/02	06/17/02	06/17/02
		DATE ANALYZED ---->	05/21/02	05/21/02	06/19/02	06/19/02	06/19/02	06/19/02
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
CAS #	Parameter		209722 VAL	209722 VAL	210146 VAL	210146 VAL	210146 VAL	210146 VAL
91-20-3	Naphthalene		7.8 U	7.6 U	20.	4.3 J	26. J	56. J
91-57-6	2-Methylnaphthalene		0.87 J	1.8 J	8.7	3.6 J	7.9 J	14. J
208-96-8	Acenaphthylene		7.8 U	7.6 U	7.5 U	7.7 U	7.7 U	8.1 U
83-32-9	Acenaphthene		7.8 U	7.6 U	18.	12.	74. J	220. J
86-73-7	Fluorene		7.8 U	7.6 U	15.	12.	75. J	240. J
85-01-8	Phenanthrene		1.8 J	6.2 J	71.	60.	220. J	400. J
120-12-7	Anthracene		7.8 U	7.6 U	30.	19.	120. J	360. J
206-44-0	Fluoranthene		7.8 U	7.6 U	85.	62.	300. J	700. J
129-00-0	Pyrene		6.5 J	3.4 J	75.	55.	240. J	550. J
56-55-3	Benzo(a)anthracene		7.8 U	7.6 U	35.	27.	120. J	300. J
218-01-9	Chrysene		7.8	5. J	34.	27.	110. J	260. J
205-99-2	Benzo(b)fluoranthene		2.7 J	7.6 U	24.	21.	74. J	170. J
207-08-9	Benzo(k)fluoranthene		7.8 U	7.6 U	23.	16.	92. J	230. J
50-32-8	Benzo(a)pyrene		7.8 U	7.6 U	28.	22.	97. J	230. J
193-39-5	Indeno(1,2,3-cd)pyrene		7.8 U	7.6 U	13.	10.	44. J	120. J
53-70-3	Dibenz(a,h)anthracene		7.8 U	7.6 U	4.8 J	4.1 J	14. J	50. J
191-24-2	Benzo(g,h,i)perylene		5.9 J	3.8 J	15.	11.	41. J	100. J
90-12-0	1-Methyl naphthalene		7.8 U	1.5 J	6.5 J	2.9 J	5. J	8.9

\*\*\* Validation Complete \*\*\*

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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LOW PAH		SAMPLE ID ----->	LTS-S-BB3D-18	LTS-S-BB3E-12	LTS-S-BB3E-14	LTS-S-BB3E-16	LTS-S-BB3F-14	LTS-S-BB3F-16			
		ORIGINAL ID ----->	LTSSBB3D18	LTSSBB3E12	LTSSBB3E14	LTSSBB3E16	LTSSBB3F14	LTSSBB3F16			
		LAB SAMPLE ID ---->	S244969A*9	S243973*3	S243973*4	S243973*5	S244969A*6	S244969A*7			
		ID FROM REPORT -->	LTSSBB3D18	LTSSBB3E12	LTSSBB3E14	LTSSBB3E16	LTSSBB3F14	LTSSBB3F16			
		SAMPLE DATE ----->	07/11/02	06/07/02	06/07/02	06/07/02	07/11/02	07/11/02			
		DATE EXTRACTED -->	07/16/02	06/13/02	06/13/02	06/13/02	07/16/02	07/16/02			
		DATE ANALYZED ---->	07/17/02	06/14/02	06/14/02	06/14/02	07/17/02	07/17/02			
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil			
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG			
CAS #	Parameter	LIB07	VAL	210127	VAL	210127	VAL	LIB07	VAL	LIB07	VAL
91-20-3	Naphthalene	26.		7.8		26.		9.1		13.	
91-57-6	2-Methylnaphthalene	22.		6.3	J	10.		4.7	J	8.	
208-96-8	Acenaphthylene	7.7	U	7.6	U	7.9	U	7.6	U	7.8	U
83-32-9	Acenaphthene	4.	J	15.		29.		22.		39.	
86-73-7	Fluorene	5.7	J	21.		29.		18.		40.	
85-01-8	Phenanthrene	31.		96.		110.		72.		170.	
120-12-7	Anthracene	3.4	J	23.		27.		21.		67.	
206-44-0	Fluoranthene	11.		98.		52.		78.		230.	
129-00-0	Pyrene	10.		62.		41.		63.		140.	
56-55-3	Benzo(a)anthracene	4.4	J	6.3	J	17.		32.		80.	
218-01-9	Chrysene	11.		9.1		20.		33.		76.	
205-99-2	Benzo(b)fluoranthene	6.9	J	5.2	J	19.		33.		57.	
207-08-9	Benzo(k)fluoranthene	7.7	U	7.6	U	7.9	U	7.6	U	49.	
50-32-8	Benzo(a)pyrene	7.7	U	3.4	J	14.		24.		67.	
193-39-5	Indeno(1,2,3-cd)pyrene	7.7	U	1.7	J	8.3		13.		28.	
53-70-3	Dibenz(a,h)anthracene	7.7	U	7.6	U	3.	J	3.2	J	7.8	U
191-24-2	Benzo(g,h,i)perylene	4.1	J	4.4	J	10.		12.		21.	
90-12-0	1-Methyl naphthalene	15.		4.4	J	6.2	J	3.3	J	5.4	J

\*\*\* Validation Complete \*\*\*

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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LOW PAH	SAMPLE ID ----->	LTS-S-BB3F-18	LTS-S-BB3G-10	LTS-S-BB3G-12	LTS-S-BB3G-14	LTS-C-BB3G-14	LTS-S-BB3G-16
	ORIGINAL ID ----->	LTSSBB3F18	LTSSBB3G10	LTSSBB3G12	LTSSBB3G14	LTSCBB3G14	LTSSBB3G16
	LAB SAMPLE ID ---->	S244969A*8	S244969*13	S244969*14	S244969*15	S244969*16	S244969A*1
	ID FROM REPORT -->	LTSSBB3F18	LTSSBB3G10	LTSSBB3G12	LTSSBB3G14	LTSCBB3G14	LTSSBB3G16
	SAMPLE DATE ----->	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02
	DATE EXTRACTED -->	07/16/02	07/16/02	07/16/02	07/16/02	07/16/02	07/16/02
	DATE ANALYZED ---->	07/18/02	07/18/02	07/18/02	07/18/02	07/18/02	07/17/02
	MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

CAS #	Parameter	LIB07	VAL	LIB08	VAL	LIB08	VAL	LIB08	VAL	LIB08	VAL	LIB07	VAL
91-20-3	Naphthalene	7.4	J	12.		9.5		6.3	J	4.8	J	8.1	
91-57-6	2-Methylnaphthalene	28.		4.6	J	5.3	J	4.2	J	5.6	J	4.7	J
208-96-8	Acenaphthylene	7.8	U	8.1	U	7.9	U	8.	U	7.4	U	7.8	U
83-32-9	Acenaphthene	7.8	U	7.7	J	13.		24.	J	9.	J	10.	
86-73-7	Fluorene	7.8	U	11.		14.		34.	J	8.6	J	11.	
85-01-8	Phenanthrene	20.		68.		55.		44.	J	19.	J	60.	
120-12-7	Anthracene	7.8	U	14.		14.		24.	J	7.1	J	16.	
206-44-0	Fluoranthene	7.8	U	79.		38.		44.	J	17.	J	46.	
129-00-0	Pyrene	3.5	J	59.		29.		35.	J	14.	J	33.	
56-55-3	Benzo(a)anthracene	7.8	U	29.		12.		15.	J	5.5	J	15.	
218-01-9	Chrysene	6.8	J	33.		14.		16.	J	6.7	J	20.	
205-99-2	Benzo(b)fluoranthene	7.8	U	28.		10.		14.	J	5.6	J	9.	
207-08-9	Benzo(k)fluoranthene	7.8	U	22.		8.8		9.2	J	3.3	J	9.9	
50-32-8	Benzo(a)pyrene	7.8	U	28.		11.		13.	J	5.2	J	7.8	U
193-39-5	Indeno(1,2,3-cd)pyrene	7.8	U	20.		13.		15.	J	10.	J	15.	
53-70-3	Dibenz(a,h)anthracene	7.8	U	14.		7.9	U	12.	J	7.4	UJ	7.8	U
191-24-2	Benzo(g,h,i)perylene	3.3	J	12.		5.5	J	6.3	J	2.6	J	9.9	
90-12-0	1-Methyl naphthalene	21.		3.4	J	3.4	J	2.7	J	4.1	J	3.6	J

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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LOW PAH		SAMPLE ID ----->		LTS-S-BB3G-18		LTS-S-BB3H-14		LTS-S-BB3H-16		LTS-S-BB3H-18		LTS-S-BB3I-14		LTS-S-BB3I-16	
		ORIGINAL ID ----->		LTSSBB3G18		LTSSBB3H14		LTSSBB3H16		LTSSBB3H18		LTSSBB3I14		LTSSBB3I16	
		LAB SAMPLE ID ----->		S244969A*2		S244969A*3		S244969A*4		S244969A*5		S244969*10		S244969*11	
		ID FROM REPORT ----->		LTSSBB3G18		LTSSBB3H14		LTSSBB3H16		LTSSBB3H18		LTSSBB3I14		LTSSBB3I16	
		SAMPLE DATE ----->		07/11/02		07/11/02		07/11/02		07/11/02		07/11/02		07/11/02	
		DATE EXTRACTED ----->		07/16/02		07/16/02		07/16/02		07/16/02		07/16/02		07/16/02	
		DATE ANALYZED ----->		07/17/02		07/17/02		07/17/02		07/17/02		07/18/02		07/18/02	
		MATRIX ----->		Soil		Soil		Soil		Soil		Soil		Soil	
		UNITS ----->		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	LIB07	VAL	LIB07	VAL	LIB07	VAL	LIB07	VAL	LIB08	VAL	LIB08	VAL		
91-20-3	Naphthalene	5.2	J	5.7	J	81.		15.		2.7	J	7.9	U		
91-57-6	2-Methylnaphthalene	11.		4.3	J	20.		26.		4.6	J	7.9	U		
208-96-8	Acenaphthylene	7.6	U	7.8	U	7.9	U	7.6	U	7.6	U	7.9	U		
83-32-9	Acenaphthene	7.6	U	9.4		120.		3.1	J	7.6	U	7.9	U		
86-73-7	Fluorene	7.6	U	9.5		140.		3.1	J	1.4	J	7.9	U		
85-01-8	Phenanthrene	17.		42.		650.		25.		11.		7.4	J		
120-12-7	Anthracene	7.6	U	9.7		260.		7.6	U	7.6	U	1.8	J		
206-44-0	Fluoranthene	1.8	J	37.		760.		3.1	J	2.6	J	6.9	J		
129-00-0	Pyrene	3.5	J	25.		650.		4.6	J	3.6	J	6.7	J		
56-55-3	Benzo(a)anthracene	7.6	U	13.		300.		7.6	U	7.6	U	2.9	J		
218-01-9	Chrysene	8.4		18.		270.		7.5	J	3.7	J	4.3	J		
205-99-2	Benzo(b)fluoranthene	3.	J	10.		230.		5.1	J	2.9	J	3.4	J		
207-08-9	Benzo(k)fluoranthene	7.6	U	9.8		180.		3.3	J	7.6	U	2.1	J		
50-32-8	Benzo(a)pyrene	7.6	U	7.8	U	260.		4.9	J	7.6	U	3.4	J		
193-39-5	Indeno(1,2,3-cd)pyrene	7.6	U	14.		95.		7.6	U	7.6	U	7.9	U		
53-70-3	Dibenz(a,h)anthracene	7.6	U	11.		57.		7.6	U	7.6	U	7.9	U		
191-24-2	Benzo(g,h,i)perylene	4.3	J	7.1	J	96.		4.3	J	2.2	J	3.1	J		
90-12-0	1-Methyl naphthalene	7.6	J	3.4	J	12.		20.		6.4	J	7.9	U		

\*\*\* Validation Complete \*\*\*

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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LOW PAH	SAMPLE ID ----->	LTS-S-BB3I-18	LTS-S-BB3J-10	LTS-C-BB3J-10	LTS-S-BB3J-12	LTS-S-BB3J-14	LTS-S-BB3K-10
	ORIGINAL ID ----->	LTSSBB3I18	LTSSBB3J10	LTSCBB3J10	LTSSBB3J12	LTSSBB3J14	LTSSBB3K10
	LAB SAMPLE ID ---->	S244969*12	S244969*6	S244969*7	S244969*8	S244969*9	S244969*3
	ID FROM REPORT --->	LTSSBB3I18	LTSSBB3J10	LTSCBB3J10	LTSSBB3J12	LTSSBB3J14	LTSSBB3K10
	SAMPLE DATE ----->	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02
	DATE EXTRACTED -->	07/16/02	07/16/02	07/16/02	07/16/02	07/16/02	07/16/02
	DATE ANALYZED ---->	07/18/02	07/17/02	07/18/02	07/18/02	07/18/02	07/17/02
	MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

CAS #	Parameter	LIB08	VAL	LIB08	VAL	LIB08	VAL	LIB08	VAL	LIB08	VAL
91-20-3	Naphthalene	5.8	J	2.	J	8.	J	7.9	U	7.7	U
91-57-6	2-Methylnaphthalene	12.		2.5	J	4.8	J	7.9	U	7.7	U
208-96-8	Acenaphthylene	7.6	U	7.9	U	8.1	U	7.9	U	7.7	U
83-32-9	Acenaphthene	7.6	U	7.9	UJ	13.	J	7.9	U	7.7	U
86-73-7	Fluorene	2.3	J	2.1	J	19.	J	7.9	U	7.7	U
85-01-8	Phenanthrene	17.		12.	J	69.	J	4.8	J	1.5	J
120-12-7	Anthracene	3.2	J	2.6	J	23.	J	7.9	U	7.7	U
206-44-0	Fluoranthene	12.		15.	J	120.	J	3.	J	7.7	U
129-00-0	Pyrene	9.8		12.	J	94.	J	3.4	J	3.6	J
56-55-3	Benzo(a)anthracene	5.7	J	6.7	J	39.	J	7.9	U	7.7	U
218-01-9	Chrysene	7.4	J	7.6	J	42.	J	3.5	J	4.6	J
205-99-2	Benzo(b)fluoranthene	5.2	J	8.1	J	29.	J	7.9	U	3.1	J
207-08-9	Benzo(k)fluoranthene	4.	J	5.1	J	28.	J	7.9	U	7.7	U
50-32-8	Benzo(a)pyrene	7.6	U	6.9	J	34.	J	7.9	U	7.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	11.		11.	J	24.	J	7.9	U	7.7	U
53-70-3	Dibenz(a,h)anthracene	7.6	U	7.9	UJ	15.	J	7.9	U	7.7	U
191-24-2	Benzo(g,h,i)perylene	4.1	J	2.9	J	18.	J	7.9	U	2.9	J
90-12-0	1-Methyl naphthalene	8.7		1.7	J	3.2	J	7.9	U	7.7	U

\*\*\* Validation Complete \*\*\*

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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LOW PAH		SAMPLE ID ----->		LTS-S-BB3K-12	LTS-S-BB3K-14		LTS-S-BC02-12		LTS-S-BC04-22		LTS-C-BC04-22		
		ORIGINAL ID ----->		LTSSBB3K12	LTSSBB3K14		LTSSBC0212		LTSSBC0422		LTSCBC0422		
		LAB SAMPLE ID ---->		S244969*4	S244969*5		S242909*13		S242909*11		S242909*12		
		ID FROM REPORT -->		LTSSBB3K12	LTSSBB3K14		LTSSBC0212		LTSSBC0422		LTSCBC0422		
		SAMPLE DATE ----->		07/11/02	07/11/02		04/26/02		04/26/02		04/26/02		
		DATE EXTRACTED -->		07/16/02	07/16/02		05/01/02		05/01/02		05/01/02		
		DATE ANALYZED ---->		07/17/02	07/17/02		05/02/02		05/02/02		05/02/02		
		MATRIX ----->		Soil	Soil		Soil		Soil		Soil		
		UNITS ----->		UG/KG	UG/KG		UG/KG		UG/KG		UG/KG		
CAS #	Parameter	LIB08	VAL	LIB08	VAL	209315	VAL	209315	VAL	209315	VAL		
91-20-3	Naphthalene	11.		7.6	U	2.5	J	3.5	J	4.6	J		
91-57-6	2-Methylnaphthalene	3.5	J	7.6	U	3.5	J	3.7	J	4.3	J		
208-96-8	Acenaphthylene	7.8	U	7.6	U	7.8	U	7.6	U	8.	U		
83-32-9	Acenaphthene	10.		7.6	U	7.8	U	3.	J	4.1	J		
86-73-7	Fluorene	14.		7.6	U	1.6	J	3.8	J	4.6	J		
85-01-8	Phenanthrene	99.		5.4	J	9.6		24.		32.			
120-12-7	Anthracene	24.		7.6	U	1.6	J	7.	J	9.7			
206-44-0	Fluoranthene	150.		7.6	U	5.4	J	21.		31.			
129-00-0	Pyrene	120.		2.2	J	5.7	J	23.		33.			
56-55-3	Benzo(a)anthracene	70.		7.6	U	1.9	J	10.		14.			
218-01-9	Chrysene	69.		4.4	J	4.2	J	12.		17.			
205-99-2	Benzo(b)fluoranthene	60.		7.6	U	2.	J	7.2	J	12.			
207-08-9	Benzo(k)fluoranthene	53.		7.6	U	1.8	J	8.2		11.			
50-32-8	Benzo(a)pyrene	62.		7.6	U	7.8	U	9.2		13.			
193-39-5	Indeno(1,2,3-cd)pyrene	25.		7.6	U	7.8	U	11.		11.			
53-70-3	Dibenz(a,h)anthracene	19.		7.6	U	7.8	U	12.	J	8.	UJ		
191-24-2	Benzo(g,h,i)perylene	18.		2.	J	7.8	U	7.4	J	7.8	J		
90-12-0	1-Methyl naphthalene	2.4	J	7.6	U	2.9	J	2.1	J	2.9	J		

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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METAL		SAMPLE ID ----->	LTS-C-BB01-18	LTS-S-BB01-18	LTS-S-BB02-18	LTS-S-BB02-25	LTS-S-BB03-05	LTS-S-BB03-14
		ORIGINAL ID ----->	LTSCBB0118	LTSSBB0118	LTSSBB0218	LTSSBB0225	LTSSBB0305	LTSSBB0314
		LAB SAMPLE ID ----->	209315-010	209315-009	209315-007	209315-008	209315-013	209315-014
		ID FROM REPORT ----->	LTSCBB0118	LTSSBB0118	LTSSBB0218	LTSSBB0225	LTSSBB0305	LTSSBB0314
		SAMPLE DATE ----->	04/26/02	04/26/02	04/26/02	04/26/02	04/26/02	04/26/02
		DATE EXTRACTED ----->	05/06/02	05/06/02	05/06/02	05/06/02	05/06/02	05/06/02
		DATE ANALYZED ----->	05/07/02	05/07/02	05/07/02	05/07/02	05/07/02	05/07/02
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil
		UNITS ----->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
CAS #	Parameter		209315 VAL	209315 VAL	209315 VAL	209315 VAL	209315 VAL	209315 VAL
7429-90-5	Aluminum		4800.	7300.	8360.	8740.	11600.	10500.
7440-36-0	Antimony		1.5 UJ	1.7 UJ	1.4 UJ	1.5 UJ	1.7 UJ	1.6 UJ
7440-38-2	Arsenic		7.	6.5	7.8	7.9	7.8	8.2
7440-39-3	Barium		27.4 J	34.7 J	36.9 J	39.2 J	65.3 J	65.2 J
7440-41-7	Beryllium		0.32 J	0.38 J	0.52 J	0.49 J	0.6 J	0.57 J
7440-43-9	Cadmium		0.078 U	0.25 J	0.1 J	0.077 U	0.26 J	0.13 J
7440-70-2	Calcium		85900.	77500.	74900.	72100.	48600.	45800.
7440-47-3	Chromium		10.1	14.7	16.8	17.	19.3	18.3
7440-48-4	Cobalt		5.1 J	9.5 J	9.5	10.4	11.	10.8
7440-50-8	Copper		22.1	22.6	21.	21.8	22.9	21.5
7439-89-6	Iron		18700.	18100.	23500.	19700.	21700.	24500.
7439-92-1	Lead		18. J	13. J	13.7 J	13.2 J	15.5 J	12.5 J
7439-95-4	Magnesium		47000.	39600.	39700.	37100.	26700.	25700.
7439-96-5	Manganese		832.	637.	641.	619.	640.	802.
7439-97-6	Mercury		0.058 U	0.058 U	0.055 U	0.06 U	0.058 U	0.058 U
7440-02-0	Nickel		16.1 J	22.7 J	24.8 J	25.1 J	25.9 J	25.9 J
7440-09-7	Potassium		1660. J	2160. J	2530. J	2700. J	2530. J	2110. J
7782-49-2	Selenium		0.28 J	0.24 UJ	0.26 J	0.23 UJ	0.27 J	0.22 UJ
7440-22-4	Silver		0.47 U	0.52 U	0.45 U	0.46 U	0.5 U	0.51 U
7440-23-5	Sodium		295. J	313. J	378. J	345. J	308. J	333. J
7440-28-0	Thallium		1.6 J	2.8	2.	2.1	2.2	1.7 J
7440-62-2	Vanadium		16.	20.1	25.3	23.3	29.3	28.5
7440-66-6	Zinc		39.5 J	42.6 J	51.4 J	51.7 J	74.3 J	53.3 J

\*\*\* Validation Complete \*\*\*



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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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METAL	SAMPLE ID ----->	LTS-S-BB04-17	LTS-S-BB04-25	LTS-S-BB3B-12	LTS-S-BB3B-14	LTS-S-BB3B-16	LTS-S-BB3C-12
	ORIGINAL ID ----->	LTSSBB0417	LTSSBB0425	LTSSBB3B12	LTSSBB3B14	LTSSBB3B16	LTSSBB3C12
	LAB SAMPLE ID ---->	209315-011	209315-012	210127-003	210127-004	210127-005	210127-006
	ID FROM REPORT -->	LTSSBB0417	LTSSBB0425	LTSSBB3B12	LTSSBB3B14	LTSSBB3B16	LTSSBB3C12
	SAMPLE DATE ----->	04/26/02	04/26/02	06/07/02	06/07/02	06/07/02	06/07/02
	DATE EXTRACTED -->	05/06/02	05/06/02	06/10/02	06/10/02	06/10/02	06/10/02
	DATE ANALYZED ---->	05/07/02	05/07/02	06/13/02	06/13/02	06/13/02	06/13/02
	MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ----->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	209315	VAL	209315	VAL	210127	VAL	210127	VAL	210127	VAL	210127	VAL
7429-90-5	Aluminum	8640.		9610.		10400.		9310.		7980.		9830.	
7440-36-0	Antimony	1.7	UJ	1.4	UJ	1.6	UJ	1.7	UJ	1.6	UJ	1.5	UJ
7440-38-2	Arsenic	8.1		6.7		9.3	J	5.7	J	8.5	J	22.3	J
7440-39-3	Barium	44.7	J	42.1	J	61.6	J	40.7	J	39.1	J	65.8	J
7440-41-7	Beryllium	0.47	J	0.53	J	0.51	J	0.43	J	0.37	J	0.48	J
7440-43-9	Cadmium	0.092	J	0.075	U	0.18	J	0.13	J	0.082	U	0.18	J
7440-70-2	Calcium	69300.		69300.		52900.		66400.		70500.		55200.	
7440-47-3	Chromium	16.3		18.5		17.2		16.4		15.		17.	
7440-48-4	Cobalt	9.6	J	9.7		10.7		9.8	J	9.4	J	17.	
7440-50-8	Copper	22.9		22.3		29.9		23.8		25.		23.9	
7439-89-6	Iron	20100.		19600.		23600.		18300.		19400.		33400.	
7439-92-1	Lead	14.5	J	13.8	J	16.6	J	12.2	J	14.3	J	13.8	J
7439-95-4	Magnesium	36400.		35100.		31100.		40000.		40200.		35300.	
7439-96-5	Manganese	646.		557.		643.		626.		593.		808.	
7439-97-6	Mercury	0.058	U	0.057	U	0.058	U	0.058	U	0.057	U	0.059	U
7440-02-0	Nickel	23.5	J	23.9	J	26.4		22.6		23.1		32.8	
7440-09-7	Potassium	2310.	J	3110.	J	2150.	J	2990.	J	2520.	J	2780.	J
7782-49-2	Selenium	0.23	J	0.24	UJ	0.15	UJ	0.28	J	0.17	UJ	0.31	J
7440-22-4	Silver	0.52	U	0.45	U	0.5	U	0.52	U	0.49	U	0.48	U
7440-23-5	Sodium	297.	J	345.	J	274.	J	245.	J	240.	J	295.	J
7440-28-0	Thallium	1.5	J	1.8	J	0.19	UJ	0.23	UJ	0.21	UJ	0.22	UJ
7440-62-2	Vanadium	23.4		24.2		24.1		18.6		17.2		21.3	
7440-66-6	Zinc	47.9	J	44.4	J	60.9		45.		46.9		58.	

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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METAL		SAMPLE ID ----->	LTS-S-BB3C-14	LTS-S-BB3C-16	LTS-S-BB3D-12	LTS-S-BB3D-14	LTS-C-BB3D-16	LTS-S-BB3D-16
		ORIGINAL ID ----->	LTSSBB3C14	LTSSBB3C16	LTSSBB3D12	LTSSBB3D14	LTSCBB3D16	LTSSBB3D16
		LAB SAMPLE ID ---->	210127-007	210127-008	210146-001	210146-002	210146-004	210146-003
		ID FROM REPORT -->	LTSSBB3C14	LTSSBB3C16	LTSSBB3D12	LTSSBB3D14	LTSCBB3D16	LTSSBB3D16
		SAMPLE DATE ----->	06/07/02	06/07/02	06/07/02	06/07/02	06/07/02	06/07/02
		DATE EXTRACTED -->	06/10/02	06/10/02	06/12/02	06/12/02	06/12/02	06/12/02
		DATE ANALYZED ---->	06/13/02	06/13/02	06/18/02	06/18/02	06/18/02	06/18/02
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil
		UNITS ----->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
CAS #	Parameter		210127 VAL	210127 VAL	210146 VAL	210146 VAL	210146 VAL	210146 VAL
7429-90-5	Aluminum		8400.	10100.	10900.	9290.	9740.	10300.
7440-36-0	Antimony		1.6 UJ	1.7 UJ	1.1 J	0.54 UJ	0.48 UJ	0.48 UJ
7440-38-2	Arsenic		6.9 J	8.9 J	9.6	7.8	7.7	6.9
7440-39-3	Barium		33.8 J	54.6	83.4	60.6	56.6	61.9
7440-41-7	Beryllium		0.38 J	0.48 J	0.61 J	0.53 J	0.53 J	0.54 J
7440-43-9	Cadmium		0.11 J	0.12 J	0.058 UJ	0.056 UJ	0.18 J	0.049 UJ
7440-70-2	Calcium		66800.	55100.	53600.	63500.	64700.	56000.
7440-47-3	Chromium		15.7	17.1	18.1	16.6	16.7	17.3
7440-48-4	Cobalt		8.5 J	10.4 J	14.2 J	11. J	9.9 J	11.2 J
7440-50-8	Copper		23.2	28.7	24.1	23.3	26.3	22.8
7439-89-6	Iron		18600.	22100.	24800.	22400.	23200.	21500.
7439-92-1	Lead		10.8 J	13.6 J	16.6 J	12.2 J	15.3 J	13.5 J
7439-95-4	Magnesium		39400.	32900.	27900.	34100.	35200.	30800.
7439-96-5	Manganese		540.	633.	1000.	789.	784.	647.
7439-97-6	Mercury		0.058 U	0.057 U	0.059 U	0.058 U	0.059 U	0.058 U
7440-02-0	Nickel		24.1	25.6	26.6	25.2	23.7	25.2
7440-09-7	Potassium		2720. J	2390. J	2110. J	2300. J	2100. J	2260. J
7782-49-2	Selenium		0.19 UJ	0.16 J	0.36 J	0.4 J	0.41 J	0.33 J
7440-22-4	Silver		0.51 U	0.53 U	0.23 U	0.22 U	0.2 U	0.19 U
7440-23-5	Sodium		216. J	210. J	142. J	168. J	171. J	154. J
7440-28-0	Thallium		0.25 J	0.23 J	1.8 J	1.8 J	1.2 J	1.3 J
7440-62-2	Vanadium		17.8	21.9	27.8 J	23.7 J	24. J	23.7 J
7440-66-6	Zinc		45.5	52.5	62.2 J	48.6 J	96.5 J	55.6 J

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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METAL		SAMPLE ID ----->	LTS-S-BB3D-18	LTS-S-BB3E-12	LTS-S-BB3E-14	LTS-S-BB3E-16	LTS-S-BB3F-14	LTS-S-BB3F-16
		ORIGINAL ID ----->	LTSSBB3D18	LTSSBB3E12	LTSSBB3E14	LTSSBB3E16	LTSSBB3F14	LTSSBB3F16
		LAB SAMPLE ID ----->	210701-028	210127-009	210127-010	210127-011	210701-025	210701-026
		ID FROM REPORT ----->	LTSSBB3D18	LTSSBB3E12	LTSSBB3E14	LTSSBB3E16	LTSSBB3F14	LTSSBB3F16
		SAMPLE DATE ----->	07/11/02	06/07/02	06/07/02	06/07/02	07/11/02	07/11/02
		DATE EXTRACTED ----->	07/15/02	06/10/02	06/10/02	06/10/02	07/15/02	07/15/02
		DATE ANALYZED ----->	07/17/02	06/13/02	06/13/02	06/13/02	07/17/02	07/17/02
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil
		UNITS ----->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
CAS #	Parameter		210701 VAL	210127 VAL	210127 VAL	210127 VAL	210701 VAL	210701 VAL
7429-90-5	Aluminum		6190. J	11100.	9530.	9750.	7590. J	8750. J
7440-36-0	Antimony		1.4 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.6 UJ	1.7 UJ
7440-38-2	Arsenic		8.4 J	6.1 J	7.2 J	6.9 J	11.7 J	7.2 J
7440-39-3	Barium		27.7 J	67.	51.4	55.3	73.8	50.1
7440-41-7	Beryllium		0.32 J	0.53 J	0.44 J	0.46 J	0.45 J	0.46 J
7440-43-9	Cadmium		0.074 U	0.16 J	0.12 J	0.14 J	0.085 U	0.086 U
7440-70-2	Calcium		75200.	36400.	45500.	59400.	69600.	57300.
7440-47-3	Chromium		11.9	18.	15.9	16.6	15.	15.7
7440-48-4	Cobalt		8. J	9. J	9.6 J	10.1 J	10.4 J	9.9 J
7440-50-8	Copper		19.7	24.3	22.3	24.	23.8	23.7
7439-89-6	Iron		19200.	19100.	20100.	20200.	21100.	19400.
7439-92-1	Lead		11.8 J	12.7 J	12.3 J	13.2 J	14.3 J	12.7 J
7439-95-4	Magnesium		39900.	20200.	27300.	34800.	38100.	32300.
7439-96-5	Manganese		599.	516.	557.	686.	703.	669.
7439-97-6	Mercury		0.057 U	0.059 U	0.056 U	0.057 U	0.056 U	0.058 U
7440-02-0	Nickel		19.7 J	22.2	23.1	24.2	23.9 J	24.5 J
7440-09-7	Potassium		1810. J	1700. J	1960. J	2350. J	2220. J	2000. J
7782-49-2	Selenium		1.1 U	0.23 UJ	0.16 UJ	0.21 UJ	1.4 U	1.3 U
7440-22-4	Silver		0.44 U	0.52 U	0.52 U	0.53 U	0.51 U	0.52 U
7440-23-5	Sodium		341. J	252. J	171. U	237. J	346. J	358. J
7440-28-0	Thallium		0.37 UJ	0.29 UJ	0.2 UJ	0.26 UJ	0.33 UJ	0.37 UJ
7440-62-2	Vanadium		17.6	23.2	20.8	21.4	22.4	22.7
7440-66-6	Zinc		36.4 J	58.8	49.9	53.9	48.7 J	46.2 J

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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METAL		SAMPLE ID ----->	LTS-S-BB3F-18	LTS-S-BB3G-10	LTS-S-BB3G-12	LTS-S-BB3G-14	LTS-C-BB3G-14	LTS-S-BB3G-16
		ORIGINAL ID ----->	LTSSBB3F18	LTSSBB3G10	LTSSBB3G12	LTSSBB3G14	LTSCBB3G14	LTSSBB3G16
		LAB SAMPLE ID ----->	210701-027	210701-014	210701-015	210701-016	210701-017	210701-018
		ID FROM REPORT ----->	LTSSBB3F18	LTSSBB3G10	LTSSBB3G12	LTSSBB3G14	LTSCBB3G14	LTSSBB3G16
		SAMPLE DATE ----->	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02
		DATE EXTRACTED ----->	07/15/02	07/15/02	07/15/02	07/15/02	07/15/02	07/15/02
		DATE ANALYZED ----->	07/17/02	07/17/02	07/17/02	07/17/02	07/17/02	07/17/02
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil
		UNITS ----->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
CAS #	Parameter		210701 VAL	210701 VAL	210701 VAL	210701 VAL	210701 VAL	210701 VAL
7429-90-5	Aluminum		6430. J	10700. J	10600. J	9270. J	10600. J	9260. J
7440-36-0	Antimony		1.6 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.6 UJ	1.5 UJ
7440-38-2	Arsenic		6.7 J	7.3 J	7.9 J	7.8 J	6.9 J	8. J
7440-39-3	Barium		31.1 J	57.5	47.3	40.7 J	61.4	45.5
7440-41-7	Beryllium		0.33 J	0.53 J	0.54 J	0.48 J	0.56 J	0.48 J
7440-43-9	Cadmium		0.082 U	0.12 J	0.15 J	0.084 U	0.085 U	0.086 J
7440-70-2	Calcium		73900.	51800.	57600.	62400.	43100.	62100.
7440-47-3	Chromium		12.8	17.6	17.8	16.2	17.	16.3
7440-48-4	Cobalt		9.2 J	9.5 J	9.9 J	9.9 J	9.1 J	9.8 J
7440-50-8	Copper		21.5	23.9	25.	24.	25.3	25.4
7439-89-6	Iron		16900.	20900.	21900.	19500.	20700.	20800.
7439-92-1	Lead		10.8 J	15. J	13.3 J	12.5 J	12.6 J	12.6 J
7439-95-4	Magnesium		38800.	29500.	33600.	35800.	24700.	36100.
7439-96-5	Manganese		595.	636.	673.	693.	487.	635.
7439-97-6	Mercury		0.057 U	0.06 U	0.057 U	0.058 U	0.057 U	0.058 U
7440-02-0	Nickel		22.1 J	24.2 J	25.6 J	24.2 J	23. J	24.5 J
7440-09-7	Potassium		1820. J	2400. J	2760. J	2430. J	1690. J	2480. J
7782-49-2	Selenium		0.35 U	0.94 U	1.5 U	1. U	0.94 U	0.94 U
7440-22-4	Silver		0.49 U	0.47 U	0.49 U	0.5 U	0.51 U	0.48 U
7440-23-5	Sodium		296. J	289. J	292. J	323. J	319. J	330. J
7440-28-0	Thallium		0.38 UJ	1.1 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ
7440-62-2	Vanadium		18.4	26.6	25.7	23.	24.1	24.1
7440-66-6	Zinc		37.7 J	54.8 J	52. J	46.6 J	50.2 J	53.1 J

\*\*\* Validation Complete \*\*\*

LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

METAL		SAMPLE ID ----->	LTS-S-BB3G-18	LTS-S-BB3H-14	LTS-S-BB3H-16	LTS-S-BB3H-18	LTS-S-BB3I-14	LTS-S-BB3I-16	
ORIGINAL ID ----->		LTSSBB3G18	LTSSBB3H14	LTSSBB3H16	LTSSBB3H18	LTSSBB3I14	LTSSBB3I16		
LAB SAMPLE ID ---->		210701-019	210701-020	210701-021	210701-022	210701-011	210701-012		
ID FROM REPORT --->		LTSSBB3G18	LTSSBB3H14	LTSSBB3H16	LTSSBB3H18	LTSSBB3I14	LTSSBB3I16		
SAMPLE DATE ----->		07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02		
DATE EXTRACTED --->		07/15/02	07/15/02	07/15/02	07/15/02	07/15/02	07/15/02		
DATE ANALYZED ---->		07/17/02	07/17/02	07/17/02	07/17/02	07/17/02	07/17/02		
MATRIX ----->		Soil	Soil	Soil	Soil	Soil	Soil		
UNITS ----->		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG		
CAS #	Parameter	210701	VAL	210701	VAL	210701	VAL	210701	VAL
7429-90-5	Aluminum	7650.	J	11000.	J	8900.	J	7470.	J
7440-36-0	Antimony	1.7	UJ	1.6	UJ	1.7	UJ	1.5	UJ
7440-38-2	Arsenic	7.9	J	8.7	J	7.1	J	7.	J
7440-39-3	Barium	33.4	J	64.6	J	53.	J	35.6	J
7440-41-7	Beryllium	0.4	J	0.55	J	0.45	J	0.4	J
7440-43-9	Cadmium	0.086	U	0.09	J	0.096	J	0.08	U
7440-70-2	Calcium	74900.		50400.		57400.		78200.	
7440-47-3	Chromium	14.4		18.		15.4		13.9	
7440-48-4	Cobalt	10.7	J	14.1		9.8	J	9.1	J
7440-50-8	Copper	22.1		24.7		23.3		22.6	
7439-89-6	Iron	18100.		21400.		20100.		17200.	
7439-92-1	Lead	11.2	J	13.5	J	14.9	J	11.4	J
7439-95-4	Magnesium	41000.		29500.		33100.		35500.	
7439-96-5	Manganese	648.		602.		653.		600.	
7439-97-6	Mercury	0.057	U	0.058	U	0.058	U	0.057	U
7440-02-0	Nickel	25.	J	28.9	J	24.	J	21.5	J
7440-09-7	Potassium	2460.	J	2440.	J	1720.	J	2270.	J
7782-49-2	Selenium	0.93	U	0.73	U	1.1	U	0.91	U
7440-22-4	Silver	0.51	U	0.51	U	0.54	U	0.48	U
7440-23-5	Sodium	334.	J	292.	J	336.	J	326.	J
7440-28-0	Thallium	1.2	UJ	1.2	UJ	1.3	UJ	1.2	UJ
7440-62-2	Vanadium	20.3		27.1		22.6		19.7	
7440-66-6	Zinc	43.8	J	54.1	J	50.8	J	37.2	J

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METAL		SAMPLE ID ----->	LTS-S-BB3I-18	LTS-S-BB3J-10	LTS-C-BB3J-10	LTS-S-BB3J-12	LTS-S-BB3J-14	LTS-S-BB3K-10
		ORIGINAL ID ----->	LTSSBB3I18	LTSSBB3J10	LTSCBB3J10	LTSSBB3J12	LTSSBB3J14	LTSSBB3K10
		LAB SAMPLE ID ----->	210701-013	210701-007	210701-010	210701-008	210701-009	210701-004
		ID FROM REPORT ----->	LTSSBB3I18	LTSSBB3J10	LTSCBB3J10	LTSSBB3J12	LTSSBB3J14	LTSSBB3K10
		SAMPLE DATE ----->	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02
		DATE EXTRACTED ----->	07/15/02	07/15/02	07/15/02	07/15/02	07/15/02	07/15/02
		DATE ANALYZED ----->	07/17/02	07/17/02	07/17/02	07/17/02	07/17/02	07/17/02
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil
		UNITS ----->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
CAS #	Parameter		210701 VAL	210701 VAL	210701 VAL	210701 VAL	210701 VAL	210701 VAL
7429-90-5	Aluminum		7410. J	7410. J	10600. J	10500. J	8440. J	9030. J
7440-36-0	Antimony		1.6 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.6 UJ	1.6 UJ
7440-38-2	Arsenic		6.9 J	7.4 J	7.8 J	8.6 J	7.1 J	2.9 J
7440-39-3	Barium		33.1 J	42.8	55.	46.1	31.1 J	31. J
7440-41-7	Beryllium		0.39 J	0.4 J	0.52 J	0.54 J	0.44 J	0.45 J
7440-43-9	Cadmium		0.088 J	0.077 U	0.13 J	0.13 J	0.085 U	0.16 J
7440-70-2	Calcium		72200.	63800.	50800.	61200.	66200.	65600.
7440-47-3	Chromium		14.	14.	17.6	18.	15.5	16.1
7440-48-4	Cobalt		9.4 J	9. J	9.4 J	8.9 J	9. J	9.2 J
7440-50-8	Copper		24.8	21.9	24.6	24.7	22.2	22.6
7439-89-6	Iron		17500.	19100.	22000.	21300.	17900.	11600.
7439-92-1	Lead		11.3 J	11.6 J	13.5 J	12.1 J	10.1 J	13.4 J
7439-95-4	Magnesium		39200.	34800.	30100.	35500.	38100.	37900.
7439-96-5	Manganese		608.	710.	553.	604.	578.	523.
7439-97-6	Mercury		0.057 U	0.056 U	0.058 U	0.059 U	0.057 U	0.059 U
7440-02-0	Nickel		23.2 J	22.1 J	24.7 J	24.3 J	24.3 J	24.2 J
7440-09-7	Potassium		2350. J	1890. J	2710. J	2910. J	2620. J	2790. J
7782-49-2	Selenium		0.49 U	0.86 U	0.75 U	0.9 U	1. U	0.94 U
7440-22-4	Silver		0.5 U	0.46 U	0.48 U	0.52 U	0.51 U	0.51 U
7440-23-5	Sodium		367. J	303. J	316. J	316. J	327. J	255. J
7440-28-0	Thallium		1.2 UJ	1.1 UJ	1.2 UJ	1.3 UJ	1.2 UJ	1.2 UJ
7440-62-2	Vanadium		20.7	20.1	25.6	25.1	21.2	21.3
7440-66-6	Zinc		40.2 J	40.1 J	56.2 J	49. J	63.3 J	70. J

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METAL		SAMPLE ID ----->	LTS-S-BB3K-12	LTS-S-BB3K-14	LTS-S-BC02-12	LTS-C-BC04-22	LTS-S-BC04-22	
		ORIGINAL ID ----->	LTSSBB3K12	LTSSBB3K14	LTSSBC0212	LTSCBC0422	LTSSBC0422	
		LAB SAMPLE ID ---->	210701-005	210701-006	209315-017	209315-016	209315-015	
		ID FROM REPORT -->	LTSSBB3K12	LTSSBB3K14	LTSSBC0212	LTSCBC0422	LTSSBC0422	
		SAMPLE DATE ----->	07/11/02	07/11/02	04/26/02	04/26/02	04/26/02	
		DATE EXTRACTED -->	07/15/02	07/15/02	05/06/02	05/06/02	05/06/02	
		DATE ANALYZED ---->	07/17/02	07/17/02	05/07/02	05/07/02	05/07/02	
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	
		UNITS ----->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	
CAS #	Parameter		210701 VAL	210701 VAL	209315 VAL	209315 VAL	209315 VAL	
7429-90-5	Aluminum		8840. J	6570. J	9490.	4220.	3100.	
7440-36-0	Antimony		1.6 UJ	1.4 UJ	1.7 UJ	1.7 UJ	1.4 UJ	
7440-38-2	Arsenic		11.6 J	6.3 J	7.4	9.1	5.9	
7440-39-3	Barium		30. J	27.1 J	51.1 J	15.8 J	12.8 J	
7440-41-7	Beryllium		0.49 J	0.34 J	0.5 J	0.19 J	0.16 J	
7440-43-9	Cadmium		0.11 J	0.073 U	0.12 J	0.088 U	1.1	
7440-70-2	Calcium		57900.	70100.	82700.	90600.	100000.	
7440-47-3	Chromium		16.2	13.1	16.4	8.9	7.5	
7440-48-4	Cobalt		11.4	9.3	9.5 J	7.3 J	6.3 J	
7440-50-8	Copper		27.2	21.5	20.6	29.2	19.3	
7439-89-6	Iron		24300.	15700.	19400.	20300.	20800.	
7439-92-1	Lead		17.4 J	11. J	12.1 J	8.4 J	8.4 J	
7439-95-4	Magnesium		36300.	38000.	29300.	47200.	54000.	
7439-96-5	Manganese		490.	599.	611.	610.	656.	
7439-97-6	Mercury		0.059 U	0.056 U	0.058 U	0.057 U	0.058 U	
7440-02-0	Nickel		27.5 J	21.6 J	23.2 J	19.4 J	14.1 J	
7440-09-7	Potassium		2290. J	1900. J	1970. J	1020. J	836. J	
7782-49-2	Selenium		1.1 U	0.49 U	0.31 J	0.23 UJ	0.24 UJ	
7440-22-4	Silver		0.5 U	0.44 U	0.53 U	0.53 U	0.45 U	
7440-23-5	Sodium		294. J	281. J	249. J	466. J	318. J	
7440-28-0	Thallium		1.2 UJ	1.1 UJ	2. J	2.1 J	1.9	
7440-62-2	Vanadium		23.9	19.	24.2	19.5	17.9	
7440-66-6	Zinc		56.5 J	38.7 J	52.4 J	51.8 J	282. J	

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PCB		SAMPLE ID ----->	LTS-C-BB01-18	LTS-S-BB01-18	LTS-S-BB02-18	LTS-S-BB02-25	LTS-S-BB03-05	LTS-S-BB03-14	
		ORIGINAL ID ----->	LTSCBB0118	LTSSBB0118	LTSSBB0218	LTSSBB0225	LTSSBB0305	LTSSBB0314	
		LAB SAMPLE ID ---->	209315-010	209315-009	209315-007	209315-008	209315-013	209315-014	
		ID FROM REPORT -->	LTSCBB0118	LTSSBB0118	LTSSBB0218	LTSSBB0225	LTSSBB0305	LTSSBB0314	
		SAMPLE DATE ----->	04/26/02	04/26/02	04/26/02	04/26/02	04/26/02	04/26/02	
		DATE EXTRACTED -->	04/29/02	04/29/02	04/29/02	04/29/02	04/29/02	04/29/02	
		DATE ANALYZED ---->	05/09/02	05/09/02	05/09/02	05/09/02	05/09/02	05/09/02	
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil	
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
CAS #	Parameter	209315	VAL	209315	VAL	209315	VAL	209315	VAL
12674-11-2	Aroclor-1016	38.	U	38.	U	36.	U	38.	U
11104-28-2	Aroclor-1221	78.	U	78.	U	74.	U	76.	U
11141-16-5	Aroclor-1232	38.	U	38.	U	36.	U	39.	U
53469-21-9	Aroclor-1242	38.	U	38.	U	36.	U	38.	U
12672-29-6	Aroclor-1248	38.	U	38.	U	36.	U	38.	U
11097-69-1	Aroclor-1254	38.	U	38.	U	36.	U	38.	U
11096-82-5	Aroclor-1260	38.	U	38.	U	36.	U	38.	U

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PCB		SAMPLE ID ----->	LTS-S-BB04-17	LTS-S-BB04-25	LTS-S-BB3B-12	LTS-S-BB3B-14	LTS-S-BB3B-16	LTS-S-BB3C-12
		ORIGINAL ID ----->	LTSSBB0417	LTSSBB0425	LTSSBB3B12	LTSSBB3B14	LTSSBB3B16	LTSSBB3C12
		LAB SAMPLE ID ---->	209315-011	209315-012	210127-003	210127-004	210127-005	210127-006
		ID FROM REPORT -->	LTSSBB0417	LTSSBB0425	LTSSBB3B12	LTSSBB3B14	LTSSBB3B16	LTSSBB3C12
		SAMPLE DATE ----->	04/26/02	04/26/02	06/07/02	06/07/02	06/07/02	06/07/02
		DATE EXTRACTED -->	04/29/02	04/29/02	06/13/02	06/13/02	06/13/02	06/13/02
		DATE ANALYZED ---->	05/09/02	05/09/02	06/19/02	06/19/02	06/19/02	06/19/02
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
CAS #	Parameter		209315 VAL	209315 VAL	210127 VAL	210127 VAL	210127 VAL	210127 VAL
12674-11-2	Aroclor-1016		38. U	37. U	38. U	38. U	37. U	39. U
11104-28-2	Aroclor-1221		76. U	76. U	77. U	76. U	75. U	79. U
11141-16-5	Aroclor-1232		38. U	37. U	38. U	38. U	37. U	39. U
53469-21-9	Aroclor-1242		38. U	37. U	38. U	38. U	37. U	39. U
12672-29-6	Aroclor-1248		38. U	37. U	38. U	38. U	37. U	39. U
11097-69-1	Aroclor-1254		38. U	37. U	38. U	38. U	37. U	39. U
11096-82-5	Aroclor-1260		38. U	37. U	38. U	38. U	37. U	39. U

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PCB		SAMPLE ID ----->	LTS-S-BB3C-14	LTS-S-BB3C-16	LTS-S-BB3D-12	LTS-S-BB3D-14	LTS-C-BB3D-16	LTS-S-BB3D-16
		ORIGINAL ID ----->	LTSSBB3C14	LTSSBB3C16	LTSSBB3D12	LTSSBB3D14	LTSCBB3D16	LTSSBB3D16
		LAB SAMPLE ID ---->	210127-007	210127-008	210146-001	210146-002	210146-004	210146-003
		ID FROM REPORT -->	LTSSBB3C14	LTSSBB3C16	LTSSBB3D12	LTSSBB3D14	LTSCBB3D16	LTSSBB3D16
		SAMPLE DATE ----->	06/07/02	06/07/02	06/07/02	06/07/02	06/07/02	06/07/02
		DATE EXTRACTED -->	06/13/02	06/13/02	06/14/02	06/14/02	06/14/02	06/14/02
		DATE ANALYZED ---->	06/19/02	06/19/02	06/19/02	06/19/02	06/19/02	06/19/02
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
CAS #	Parameter		210127 VAL	210127 VAL	210146 VAL	210146 VAL	210146 VAL	210146 VAL
12674-11-2	Aroclor-1016		38. U	37. U	39. U	38. U	39. U	38. U
11104-28-2	Aroclor-1221		77. U	75. U	79. U	78. U	78. U	77. U
11141-16-5	Aroclor-1232		38. U	37. U	39. U	38. U	39. U	38. U
53469-21-9	Aroclor-1242		38. U	37. U	39. U	38. U	39. U	38. U
12672-29-6	Aroclor-1248		38. U	37. U	39. U	38. U	39. U	38. U
11097-69-1	Aroclor-1254		38. U	37. U	39. U	38. U	39. U	38. U
11096-82-5	Aroclor-1260		38. U	37. U	39. U	38. U	39. U	38. U

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PCB		SAMPLE ID ----->		LTS-S-BB3D-18	LTS-S-BB3E-12		LTS-S-BB3E-14		LTS-S-BB3E-16		LTS-S-BB3F-14		LTS-S-BB3F-16	
		ORIGINAL ID ----->		LTSSBB3D18	LTSSBB3E12		LTSSBB3E14		LTSSBB3E16		LTSSBB3F14		LTSSBB3F16	
		LAB SAMPLE ID ---->		210701-028	210127-009		210127-010		210127-011		210701-025		210701-026	
		ID FROM REPORT -->		LTSSBB3D18	LTSSBB3E12		LTSSBB3E14		LTSSBB3E16		LTSSBB3F14		LTSSBB3F16	
		SAMPLE DATE ----->		07/11/02	06/07/02		06/07/02		06/07/02		07/11/02		07/11/02	
		DATE EXTRACTED -->		07/16/02	06/13/02		06/13/02		06/13/02		07/16/02		07/16/02	
		DATE ANALYZED ---->		07/19/02	06/19/02		06/19/02		06/19/02		07/18/02		07/18/02	
		MATRIX ----->		Soil	Soil		Soil		Soil		Soil		Soil	
		UNITS ----->		UG/KG	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	210701	VAL	210127	VAL	210127	VAL	210127	VAL	210701	VAL	210701	VAL	
12674-11-2	Aroclor-1016	37.	U	39.	U	36.	U	38.	U	37.	U	38.	U	
11104-28-2	Aroclor-1221	75.	U	78.	U	74.	U	77.	U	75.	U	77.	U	
11141-16-5	Aroclor-1232	37.	U	39.	U	36.	U	38.	U	37.	U	38.	U	
53469-21-9	Aroclor-1242	37.	U	39.	U	36.	U	38.	U	37.	U	38.	U	
12672-29-6	Aroclor-1248	37.	U	39.	U	36.	U	38.	U	37.	U	38.	U	
11097-69-1	Aroclor-1254	37.	U	39.	U	36.	U	38.	U	37.	U	38.	U	
11096-82-5	Aroclor-1260	37.	U	39.	U	36.	U	38.	U	37.	U	38.	U	

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6A & 7 FURTHER INVESTIGATION  
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PCB		SAMPLE ID ----->	LTS-S-BB3F-18	LTS-S-BB3G-10	LTS-S-BB3G-12	LTS-S-BB3G-14	LTS-C-BB3G-14	LTS-S-BB3G-16	
		ORIGINAL ID ----->	LTSSBB3F18	LTSSBB3G10	LTSSBB3G12	LTSSBB3G14	LTSCBB3G14	LTSSBB3G16	
		LAB SAMPLE ID ---->	210701-027	210701-014	210701-015	210701-016	210701-017	210701-018	
		ID FROM REPORT -->	LTSSBB3F18	LTSSBB3G10	LTSSBB3G12	LTSSBB3G14	LTSCBB3G14	LTSSBB3G16	
		SAMPLE DATE ----->	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	
		DATE EXTRACTED -->	07/16/02	07/16/02	07/16/02	07/16/02	07/16/02	07/16/02	
		DATE ANALYZED ---->	07/18/02	07/19/02	07/19/02	07/19/02	07/19/02	07/19/02	
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil	
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
CAS #	Parameter	210701	VAL	210701	VAL	210701	VAL	210701	VAL
12674-11-2	Aroclor-1016	37.	U	39.	U	38.	U	37.	U
11104-28-2	Aroclor-1221	76.	U	79.	U	77.	U	75.	U
11141-16-5	Aroclor-1232	37.	U	39.	U	38.	U	37.	U
53469-21-9	Aroclor-1242	37.	U	39.	U	38.	U	37.	U
12672-29-6	Aroclor-1248	37.	U	39.	U	38.	U	37.	U
11097-69-1	Aroclor-1254	37.	U	39.	U	38.	U	37.	U
11096-82-5	Aroclor-1260	37.	U	39.	U	38.	U	37.	U

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6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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PCB		SAMPLE ID ----->	LTS-S-BB3G-18	LTS-S-BB3H-14	LTS-S-BB3H-16	LTS-S-BB3H-18	LTS-S-BB3I-14	LTS-S-BB3I-16
		ORIGINAL ID ----->	LTSSBB3G18	LTSSBB3H14	LTSSBB3H16	LTSSBB3H18	LTSSBB3I14	LTSSBB3I16
		LAB SAMPLE ID ---->	210701-019	210701-020	210701-021	210701-022	210701-011	210701-012
		ID FROM REPORT -->	LTSSBB3G18	LTSSBB3H14	LTSSBB3H16	LTSSBB3H18	LTSSBB3I14	LTSSBB3I16
		SAMPLE DATE ----->	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02
		DATE EXTRACTED -->	07/16/02	07/16/02	07/16/02	07/16/02	07/16/02	07/16/02
		DATE ANALYZED ---->	07/19/02	07/19/02	07/19/02	07/18/02	07/19/02	07/19/02
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
CAS #	Parameter		210701 VAL	210701 VAL	210701 VAL	210701 VAL	210701 VAL	210701 VAL
12674-11-2	Aroclor-1016		38. U	38. U	37. U	37. U	38. U	38. U
11104-28-2	Aroclor-1221		76. U	78. U	76. U	75. U	77. U	77. U
11141-16-5	Aroclor-1232		38. U	38. U	37. U	37. U	38. U	38. U
53469-21-9	Aroclor-1242		38. U	38. U	37. U	37. U	38. U	38. U
12672-29-6	Aroclor-1248		38. U	38. U	37. U	37. U	38. U	38. U
11097-69-1	Aroclor-1254		38. U	38. U	37. U	37. U	38. U	38. U
11096-82-5	Aroclor-1260		38. U	38. U	37. U	37. U	38. U	38. U

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PCB		SAMPLE ID ----->	LTS-S-BB3I-18	LTS-S-BB3J-10	LTS-C-BB3J-10	LTS-S-BB3J-12	LTS-S-BB3J-14	LTS-S-BB3K-10	
		ORIGINAL ID ----->	LTSSBB3I18	LTSSBB3J10	LTSCBB3J10	LTSSBB3J12	LTSSBB3J14	LTSSBB3K10	
		LAB SAMPLE ID ---->	210701-013	210701-007	210701-010	210701-008	210701-009	210701-004	
		ID FROM REPORT -->	LTSSBB3I18	LTSSBB3J10	LTSCBB3J10	LTSSBB3J12	LTSSBB3J14	LTSSBB3K10	
		SAMPLE DATE ----->	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	
		DATE EXTRACTED -->	07/16/02	07/16/02	07/16/02	07/16/02	07/16/02	07/16/02	
		DATE ANALYZED ---->	07/19/02	07/19/02	07/19/02	07/19/02	07/19/02	07/19/02	
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil	
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
CAS #	Parameter	210701	VAL	210701	VAL	210701	VAL	210701	VAL
12674-11-2	Aroclor-1016	37.	U	37.	U	38.	U	37.	U
11104-28-2	Aroclor-1221	74.	U	74.	U	77.	U	79.	U
11141-16-5	Aroclor-1232	37.	U	37.	U	38.	U	39.	U
53469-21-9	Aroclor-1242	37.	U	37.	U	38.	U	39.	U
12672-29-6	Aroclor-1248	37.	U	37.	U	38.	U	39.	U
11097-69-1	Aroclor-1254	37.	U	37.	U	38.	U	39.	U
11096-82-5	Aroclor-1260	37.	U	37.	U	38.	U	39.	U

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PCB		SAMPLE ID ----->	LTS-S-BB3K-12	LTS-S-BB3K-14	LTS-S-BC02-12	LTS-C-BC04-22	LTS-S-BC04-22	
		ORIGINAL ID ----->	LTSSBB3K12	LTSSBB3K14	LTSSBC0212	LTSCBC0422	LTSSBC0422	
		LAB SAMPLE ID --->	210701-005	210701-006	209315-017	209315-016	209315-015	
		ID FROM REPORT --->	LTSSBB3K12	LTSSBB3K14	LTSSBC0212	LTSCBC0422	LTSSBC0422	
		SAMPLE DATE ----->	07/11/02	07/11/02	04/26/02	04/26/02	04/26/02	
		DATE EXTRACTED --->	07/16/02	07/16/02	04/29/02	04/29/02	04/29/02	
		DATE ANALYZED --->	07/19/02	07/19/02	05/09/02	05/09/02	05/09/02	
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
CAS #	Parameter		210701 VAL	210701 VAL	209315 VAL	209315 VAL	209315 VAL	
12674-11-2	Aroclor-1016		39. U	36. U	38. U	37. U	37. U	
11104-28-2	Aroclor-1221		78. U	74. U	77. U	76. U	76. U	
11141-16-5	Aroclor-1232		39. U	36. U	38. U	37. U	37. U	
53469-21-9	Aroclor-1242		39. U	36. U	38. U	37. U	37. U	
12672-29-6	Aroclor-1248		39. U	36. U	38. U	37. U	37. U	
11097-69-1	Aroclor-1254		39. U	36. U	38. U	37. U	37. U	
11096-82-5	Aroclor-1260		39. U	36. U	38. U	37. U	37. U	

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PH		SAMPLE ID ----->	LTS-S-BB01-18	LTS-C-BB01-18	LTS-S-BB02-18	LTS-S-BB02-25	LTS-S-BB03-05	LTS-S-BB03-14
		ORIGINAL ID ----->	LTSSBB0118	LTSCBB0118	LTSSBB0218	LTSSBB0225	LTSSBB0305	LTSSBB0314
		LAB SAMPLE ID ---->	209315-009	209315-010	209315-007	209315-008	209315-013	209315-014
		ID FROM REPORT -->	LTSSBB0118	LTSCBB0118	LTSSBB0218	LTSSBB0225	LTSSBB0305	LTSSBB0314
		SAMPLE DATE ----->	04/26/02	04/26/02	04/26/02	04/26/02	04/26/02	04/26/02
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil
		UNITS ----->						
CAS #	Parameter		209315	209315	209315	209315	209315	209315
9999900-09-4	pH		7.6	7.62	6.11	6.99	7.62	7.37

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PH		SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID ----> ID FROM REPORT --> SAMPLE DATE -----> MATRIX -----> UNITS ----->	LTS-S-BB04-17 LTSSBB0417 209315-011 LTSSBB0417 04/26/02 Soil	LTS-S-BB04-25 LTSSBB0425 209315-012 LTSSBB0425 04/26/02 Soil	LTS-S-BB3B-12 LTSSBB3B12 207922-4 LTSSBB3B12 06/07/02 Soil	LTS-S-BB3B-14 LTSSBB3B14 209722-5 LTSSBB3B14 06/07/02 Soil	LTS-S-BB3B-16 LTSSBB3B16 209722-6 LTSSBB3B16 06/07/02 Soil	LTS-S-BB3C-12 LTSSBB3C12 209722-1 LTSSBB3C12 06/07/02 Soil
CAS #	Parameter		209315	209315	209722	209722	209722	209722
9999900-09-4'	pH		6.18	7.73	8.15	7.91	7.82	7.67



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PH		SAMPLE ID ----->	LTS-S-BB3C-14	LTS-S-BB3C-16	LTS-S-BB3D-12	LTS-S-BB3D-14	LTS-C-BB3D-16	LTS-S-BB3D-16
		ORIGINAL ID ----->	LTSSBB3C14	LTSSBB3C16	LTSSBB3D12	LTSSBB3D14	LTSCBB3D16	LTSSBB3D16
		LAB SAMPLE ID ----->	209722-2	207922-3	210146-001	210146-002	210146-004	210146-003
		ID FROM REPORT ----->	LTSSBB3C14	LTSSBB3C16	LTSSBB3D12	LTSSBB3D14	LTSCBB3D16	LTSSBB3D16
		SAMPLE DATE ----->	06/07/02	06/07/02	06/07/02	06/07/02	06/07/02	06/07/02
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil
		UNITS ----->						
CAS #	Parameter		209722	209722	210146	210146	210146	210146
9999900-09-4	pH		8.09	8.19	6.6	6.7	6.6	6.7

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PH		SAMPLE ID ----->	LTS-S-BB3D-18	LTS-S-BB3E-12	LTS-S-BB3E-14	LTS-S-BB3E-16	LTS-S-BB3F-14	LTS-S-BB3F-16
		ORIGINAL ID ----->	LTSSBB3D18	LTSSBB3E12	LTSSBB3E14	LTSSBB3E16	LTSSBB3F14	LTSSBB3F16
		LAB SAMPLE ID ---->	210701-028	S243973*3	S243973*4	S243973*5	210701-025	210701-026
		ID FROM REPORT -->	LTSSBB3D18	LTSSBB3E12	LTSSBB3E14	LTSSBB3E16	LTSSBB3F14	LTSSBB3F16
		SAMPLE DATE ----->	07/11/02	06/07/02	06/07/02	06/07/02	07/11/02	07/11/02
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil
		UNITS ----->						
CAS #	Parameter		210701	210127	210127	210127	210701	210701
9999900-09-4	pH		4.8	4.6	4.9	5.	4.8	4.8

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PH		SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID ---> ID FROM REPORT --> SAMPLE DATE ----> MATRIX -----> UNITS ----->	LTS-S-BB3F-18 LTSSBB3F18 210701-027 LTSSBB3F18 07/11/02 Soil	LTS-S-BB3G-10 LTSSBB3G10 210701-014 LTSSBB3G10 07/11/02 Soil	LTS-S-BB3G-12 LTSSBB3G12 210701-015 LTSSBB3G12 07/11/02 Soil	LTS-C-BB3G-14 LTSCBB3G14 210701-017 LTSCBB3G14 07/11/02 Soil	LTS-S-BB3G-14 LTSSBB3G14 210701-016 LTSSBB3G14 07/11/02 Soil	LTS-S-BB3G-16 LTSSBB3G16 210701-018 LTSSBB3G16 07/11/02 Soil
CAS #	Parameter		210701	210701	210701	210701	210701	210701
9999900-09-4	pH		4.9	4.8	4.9	4.9	4.9	4.6

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PH	SAMPLE ID -----> ORIGINAL ID -----> LAB SAMPLE ID ----> ID FROM REPORT --> SAMPLE DATE -----> MATRIX -----> UNITS ----->	LTS-S-BB3G-18 LTSSBB3G18 210701-019 LTSSBB3G18 07/11/02 Soil	LTS-S-BB3H-14 LTSSBB3H14 210701-020 LTSSBB3H14 07/11/02 Soil	LTS-S-BB3H-16 LTSSBB3H16 210701-021 LTSSBB3H16 07/11/02 Soil	LTS-S-BB3H-18 LTSSBB3H18 210701-022 LTSSBB3H18 07/11/02 Soil	LTS-S-BB3I-14 LTSSBB3I14 210701-011 LTSSBB3I14 07/11/02 Soil	LTS-S-BB3I-16 LTSSBB3I16 210701-012 LTSSBB3I16 07/11/02 Soil
CAS #	Parameter	210701	210701	210701	210701	210701	210701
9999900-09-4	pH	4.7	4.7	4.8	4.8	4.9	5.

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PH	CAS #	Parameter	SAMPLE ID ----->	LTS-S-BB31-18	LTS-C-BB3J-10	LTS-S-BB3J-10	LTS-S-BB3J-12	LTS-S-BB3J-14	LTS-S-BB3K-10
			ORIGINAL ID ----->	LTSSBB3118	LTSCBB3J10	LTSSBB3J10	LTSSBB3J12	LTSSBB3J14	LTSSBB3K10
			LAB SAMPLE ID ----->	210701-013	210701-010	210701-007	210701-008	210701-009	210701-004
			ID FROM REPORT -->	LTSSBB3118	LTSCBB3J10	LTSSBB3J10	LTSSBB3J12	LTSSBB3J14	LTSSBB3K10
			SAMPLE DATE ----->	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02
			MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil
			UNITS ----->						
				210701	210701	210701	210701	210701	210701
9999900-09-4		pH		5.	4.9	4.9	4.9	4.8	4.8

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PH		SAMPLE ID ----->	LTS-S-BB3K-12	LTS-S-BB3K-14	LTS-S-BC02-12	LTS-S-BC04-22	LTS-C-BC04-22	
		ORIGINAL ID ----->	LTSSBB3K12	LTSSBB3K14	LTSSBC0212	LTSSBC0422	LTSCBC0422	
		LAB SAMPLE ID ----->	210701-005	210701-006	209315-017	209315-015	209315-016	
		ID FROM REPORT ----->	LTSSBB3K12	LTSSBB3K14	LTSSBC0212	LTSSBC0422	LTSCBC0422	
		SAMPLE DATE ----->	07/11/02	07/11/02	04/26/02	04/26/02	04/26/02	
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	
		UNITS ----->						
CAS #	Parameter		210701	210701	209315	209315	209315	
9999900-09-4	pH		4.9	4.8	8.02	7.63	7.84	

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SPLP METAL		SAMPLE ID ----->	LTS-S-BB01-18	LTS-C-BB01-18	LTS-S-BB02-18	LTS-S-BB02-25	LTS-S-BB03-05	LTS-S-BB03-14	
		ORIGINAL ID ----->	LTSSBB0118	LTSCBB0118	LTSSBB0218	LTSSBB0225	LTSSBB0305	LTSSBB0314	
		LAB SAMPLE ID ---->	209315-009	209315-010	209315-007	209315-008	209315-013	209315-014	
		ID FROM REPORT --->	LTSSBB0118	LTSCBB0118	LTSSBB0218	LTSSBB0225	LTSSBB0305	LTSSBB0314	
		SAMPLE DATE ----->	04/26/02	04/26/02	04/26/02	04/26/02	04/26/02	04/26/02	
		DATE EXTRACTED -->	05/01/02	05/01/02	05/01/02	05/01/02	05/01/02	05/01/02	
		DATE ANALYZED --->	05/03/02	05/03/02	05/03/02	05/03/02	05/03/02	05/03/02	
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil	
		UNITS ----->	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
CAS. #	Parameter	209315	VAL	209315	VAL	209315	VAL	209315	VAL
7440-47-3	Chromium	0.033	J	0.05	U	0.05	U	0.05	U
7440-48-4	Cobalt	0.01	J	0.05	U	0.05	U	0.05	U
7439-92-1	Lead	0.017	J	0.05	U	0.005	J	0.05	U
7439-96-5	Manganese	0.21	J	0.03	J	0.065	J	0.085	J
7440-22-4	Silver	0.05	U	0.05	U	0.05	U	0.05	U
7440-62-2	Vanadium	0.043	J	0.009	J	0.015	J	0.05	U

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SPLP METAL		SAMPLE ID -----> LTS-S-BB04-17		LTS-S-BB04-25		LTS-S-BB3B-12		LTS-S-BB3B-14		LTS-S-BB3B-16		LTS-S-BB3C-12	
		ORIGINAL ID -----> LTSSBB0417		LTSSBB0425		LTSSBB3B12		LTSSBB3B14		LTSSBB3B16		LTSSBB3C12	
		LAB SAMPLE ID ----> 209315-011		209315-012		210127-003		210127-004		210127-005		210127-006	
		ID FROM REPORT --> LTSSBB0417		LTSSBB0425		LTSSBB3B12		LTSSBB3B14		LTSSBB3B16		LTSSBB3C12	
		SAMPLE DATE -----> 04/26/02		04/26/02		06/07/02		06/07/02		06/07/02		06/07/02	
		DATE EXTRACTED --> 05/01/02		05/01/02		06/12/02		06/12/02		06/12/02		06/12/02	
		DATE ANALYZED ----> 05/03/02		05/03/02		06/17/02		06/17/02		06/17/02		06/17/02	
		MATRIX -----> Soil		Soil		Soil		Soil		Soil		Soil	
		UNITS -----> MG/L		MG/L		MG/L		MG/L		MG/L		MG/L	
CAS #	Parameter	209315	VAL	209315	VAL	210127	VAL	210127	VAL	210127	VAL	210127	VAL
7440-47-3	Chromium	0.05	U	0.05	U	0.014	J	0.05	U	0.017	J	0.05	U
7440-48-4	Cobalt	0.05	U	0.05	U	0.005	J	0.05	U	0.006	J	0.05	U
7439-92-1	Lead	0.05	U	0.05	U	0.0057	J	0.0075	U	0.0069	J	0.0075	U
7439-96-5	Manganese	0.052		0.033	J	0.23		0.018	J	0.097		0.1	
7440-22-4	Silver	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
7440-62-2	Vanadium	0.05	U	0.006	J	0.019	J	0.05	U	0.02	J	0.006	J

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SPLP METAL		SAMPLE ID ----->	LTS-S-BB3C-14	LTS-S-BB3C-16	LTS-S-BB3D-12	LTS-S-BB3D-14	LTS-S-BB3D-16	LTS-C-BB3D-16		
		ORIGINAL ID ----->	LTSSBB3C14	LTSSBB3C16	LTSSBB3D12	LTSSBB3D14	LTSSBB3D16	LTSCBB3D16		
		LAB SAMPLE ID ---->	210127-007	210127-008	210146-001	210146-002	210146-003	210146-004		
		ID FROM REPORT -->	LTSSBB3C14	LTSSBB3C16	LTSSBB3D12	LTSSBB3D14	LTSSBB3D16	LTSCBB3D16		
		SAMPLE DATE ----->	06/07/02	06/07/02	06/07/02	06/07/02	06/07/02	06/07/02		
		DATE EXTRACTED -->	06/12/02	06/12/02	06/13/02	06/13/02	06/13/02	06/13/02		
		DATE ANALYZED ---->	06/17/02	06/17/02	06/14/02	06/14/02	06/14/02	06/14/02		
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil		
		UNITS ----->	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L		
CAS #	Parameter	210127	VAL	210127	VAL	210146	VAL	210146	VAL	
7440-47-3	Chromium	0.05	U	0.016	J	0.013	J	0.01	J	
7440-48-4	Cobalt	0.05	U	0.007	J	0.05	U	0.038	J	
7439-92-1	Lead	0.0075	U	0.0075	U	0.0067	J	0.018	J	
7439-96-5	Manganese	0.05	U	0.14		0.25		0.026		
7440-22-4	Silver	0.05	U	0.05	U	0.05	U	0.51		
7440-62-2	Vanadium	0.05	U	0.021	J	0.021	J	0.05	U	
						0.016	J	0.056		
									0.014	J
									0.005	J
									0.0097	
									0.24	
									0.05	U
									0.023	J

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SPLP METAL		SAMPLE ID ----->	LTS-S-BB3D-18	LTS-S-BB3E-12	LTS-S-BB3E-14	LTS-S-BB3E-16	LTS-S-BB3F-14	LTS-S-BB3F-16
		ORIGINAL ID ----->	LTSSBB3D18	LTSSBB3E12	LTSSBB3E14	LTSSBB3E16	LTSSBB3F14	LTSSBB3F16
		LAB SAMPLE ID ----->	210720-027	210127-009	210127-010	210127-011	210720-024	210720-025
		ID FROM REPORT ----->	LTSSBB3D18	LTSSBB3E12	LTSSBB3E14	LTSSBB3E16	LTSSBB3F14	LTSSBB3F16
		SAMPLE DATE ----->	07/11/02	06/07/02	06/07/02	06/07/02	07/11/02	07/11/02
		DATE EXTRACTED ----->	07/16/02	06/12/02	06/12/02	06/12/02	07/16/02	07/16/02
		DATE ANALYZED ----->	07/17/02	06/17/02	06/17/02	06/17/02	07/17/02	07/17/02
		MATRIX ----->	Water	Soil	Soil	Soil	Water	Water
		UNITS ----->	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
CAS #	Parameter		210720 VAL	210127 VAL	210127 VAL	210127 VAL	210720 VAL	210720 VAL
7440-47-3	Chromium		0.016 J	0.05 U	0.019 J	0.026 J	0.012 J	0.016 J
7440-48-4	Cobalt		0.005 J	0.05 U	0.008 J	0.013 J	0.05 U	0.005 J
7439-92-1	Lead		0.0075 U	0.0075 U	0.01	0.02	0.0075 U	0.013
7439-96-5	Manganese		0.086	0.15	0.28	0.35	0.16	0.18
7440-22-4	Silver		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
7440-62-2	Vanadium		0.023 J	0.007 J	0.027 J	0.038 J	0.018 J	0.025 J

\*\*\* Validation Complete \*\*\*

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**LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples**

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SPLP METAL		SAMPLE ID ----->	LTS-S-BB3F-18	LTS-S-BB3G-10	LTS-S-BB3G-12	LTS-S-BB3G-14	LTS-C-BB3G-14	LTS-S-BB3G-16	
		ORIGINAL ID ----->	LTSSBB3F18	LTSSBB3G10	LTSSBB3G12	LTSSBB3G14	LTSCBB3G14	LTSSBB3G16	
		LAB SAMPLE ID ---->	210720-026	210720-013	210720-014	210720-015	210720-016	210720-017	
		ID FROM REPORT -->	LTSSBB3F18	LTSSBB3G10	LTSSBB3G12	LTSSBB3G14	LTSCBB3G14	LTSSBB3G16	
		SAMPLE DATE ----->	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	
		DATE EXTRACTED -->	07/16/02	07/16/02	07/16/02	07/16/02	07/16/02	07/16/02	
		DATE ANALYZED ---->	07/17/02	07/17/02	07/17/02	07/17/02	07/17/02	07/17/02	
		MATRIX ----->	Water	Water	Water	Water	Water	Water	
		UNITS ----->	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
CAS #	Parameter	210720	VAL	210720	VAL	210720	VAL	210720	VAL
7440-47-3	Chromium	0.018	J	0.05	U	0.013	J	0.05	U
7440-48-4	Cobalt	0.006	J	0.05	U	0.05	U	0.005	J
7439-92-1	Lead	0.0066	J	0.0075	U	0.0075	U	0.0061	J
7439-96-5	Manganese	0.12		0.11		0.17		0.17	
7440-22-4	Silver	0.05	U	0.05	U	0.05	U	0.05	U
7440-62-2	Vanadium	0.024	J	0.007	J	0.018	J	0.025	J

\*\*\* Validation Complete \*\*\*

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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SPLP METAL		SAMPLE ID ----->	LTS-S-BB3G-18	LTS-S-BB3H-14	LTS-S-BB3H-16	LTS-S-BB3H-18	LTS-S-BB3I-14	LTS-S-BB3I-16
		ORIGINAL ID ----->	LTSSBB3G18	LTSSBB3H14	LTSSBB3H16	LTSSBB3H18	LTSSBB3I14	LTSSBB3I16
		LAB SAMPLE ID ---->	210720-018	210720-019	210720-020	210720-021	210720-010	210720-011
		ID FROM REPORT -->	LTSSBB3G18	LTSSBB3H14	LTSSBB3H16	LTSSBB3H18	LTSSBB3I14	LTSSBB3I16
		SAMPLE DATE ----->	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02
		DATE EXTRACTED -->	07/16/02	07/16/02	07/16/02	07/16/02	07/16/02	07/16/02
		DATE ANALYZED ---->	07/17/02	07/17/02	07/17/02	07/17/02	07/17/02	07/17/02
		MATRIX ----->	Water	Water	Water	Water	Water	Water
		UNITS ----->	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
CAS #	Parameter		210720 VAL	210720 VAL	210720 VAL	210720 VAL	210720 VAL	210720 VAL
7440-47-3	Chromium		0.05 U	0.01 J	0.032 J	0.05 U	0.022 J	0.05 U
7440-48-4	Cobalt		0.05 U	0.05 U	0.013 J	0.05 U	0.008 J	0.05 U
7439-92-1	Lead		0.0075 U	0.0075 U	0.02	0.0075 U	0.012	0.0075 U
7439-96-5	Manganese		0.027 J	0.19	0.36	0.057	0.29	0.034 J
7440-22-4	Silver		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
7440-62-2	Vanadium		0.05 U	0.017 J	0.048 J	0.011 J	0.031 J	0.007 J

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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SPLP METAL		SAMPLE ID ----->	LTS-S-BB31-18	LTS-S-BB3J-10	LTS-C-BB3J-10	LTS-S-BB3J-12	LTS-S-BB3J-14	LTS-S-BB3K-10	
		ORIGINAL ID ----->	LTSSBB3118	LTSSBB3J10	LTSCBB3J10	LTSSBB3J12	LTSSBB3J14	LTSSBB3K10	
		LAB SAMPLE ID ---->	210720-012	210720-006	210720-009	210720-007	210720-008	210720-003	
		ID FROM REPORT -->	LTSSBB3118	LTSSBB3J10	LTSCBB3J10	LTSSBB3J12	LTSSBB3J14	LTSSBB3K10	
		SAMPLE DATE ----->	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	
		DATE EXTRACTED -->	07/16/02	07/16/02	07/16/02	07/16/02	07/16/02	07/16/02	
		DATE ANALYZED ---->	07/17/02	07/17/02	07/17/02	07/17/02	07/17/02	07/17/02	
		MATRIX ----->	Water	Water	Water	Water	Water	Water	
		UNITS ----->	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
CAS #	Parameter	210720	VAL	210720	VAL	210720	VAL	210720	VAL
7440-47-3	Chromium	0.05	U	0.02	J	0.024	J	0.05	U
7440-48-4	Cobalt	0.05	U	0.007	J	0.009	J	0.05	U
7439-92-1	Lead	0.0075	U	0.012		0.012		0.0075	U
7439-96-5	Manganese	0.03	J	0.22		0.21		0.03	J
7440-22-4	Silver	0.05	U	0.05	U	0.05	U	0.05	U
7440-62-2	Vanadium	0.007	J	0.032	J	0.036	J	0.008	J

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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SPLP METAL		SAMPLE ID ----->	LTS-S-BB3K-12	LTS-S-BB3K-14	LTS-S-BC02-12	LTS-S-BC04-22	LTS-C-BC04-22	
		ORIGINAL ID ----->	LTSSBB3K12	LTSSBB3K14	LTSSBC0212	LTSSBC0422	LTSCBC0422	
		LAB SAMPLE ID ----->	210720-004	210720-005	209315-017	209315-015	209315-016	
		ID FROM REPORT ----->	LTSSBB3K12	LTSSBB3K14	LTSSBC0212	LTSSBC0422	LTSCBC0422	
		SAMPLE DATE ----->	07/11/02	07/11/02	04/26/02	04/26/02	04/26/02	
		DATE EXTRACTED ----->	07/16/02	07/16/02	05/01/02	05/01/02	05/01/02	
		DATE ANALYZED ----->	07/17/02	07/17/02	05/03/02	05/03/02	05/03/02	
		MATRIX ----->	Water	Water	Soil	Soil	Soil	
		UNITS ----->	MG/L	MG/L	MG/L	MG/L	MG/L	
CAS #	Parameter		210720 VAL	210720 VAL	209315 VAL	209315 VAL	209315 VAL	
7440-47-3	Chromium		0.05 U	0.053	0.05 U	0.05 U	0.05 U	
7440-48-4	Cobalt		0.05 U	0.021 J	0.05 U	0.05 U	0.05 U	
7439-92-1	Lead		0.0075 U	0.017	0.05 U	0.05 U	0.05 U	
7439-96-5	Manganese		0.05 U	0.33	0.19	0.05 U	0.05 U	
7440-22-4	Silver		0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	
7440-62-2	Vanadium		0.05 U	0.074	0.007 J	0.05 U	0.05 U	

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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SVOA		SAMPLE ID ----->	LTS-S-BB01-18	LTS-C-BB01-18	LTS-S-BB02-18	LTS-S-BB02-25	LTS-S-BB03-05	LTS-S-BB03-14	
		ORIGINAL ID ----->	LTSSBB0118	LTSCBB0118	LTSSBB0218	LTSSBB0225	LTSSBB0305	LTSSBB0314	
		LAB SAMPLE ID ----->	S242909*5	S242909*6	S242909*3	S242909*4	S242909*9	S242909*10	
		ID FROM REPORT ----->	LTSSBB0118	LTSCBB0118	LTSSBB0218	LTSSBB0225	LTSSBB0305	LTSSBB0314	
		SAMPLE DATE ----->	04/26/02	04/26/02	04/26/02	04/26/02	04/26/02	04/26/02	
		DATE EXTRACTED ----->	05/01/02	05/01/02	05/01/02	05/01/02	05/01/02	05/01/02	
		DATE ANALYZED ----->	05/03/02	05/03/02	05/03/02	05/03/02	05/03/02	05/03/02	
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil	
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
CAS #	Parameter	209315	VAL	209315	VAL	209315	VAL	209315	VAL
108-95-2	Phenol	390.	U	390.	U	420.	U	370.	U
111-44-4	bis(2-Chloroethyl)ether	390.	U	390.	U	420.	U	370.	U
95-57-8	2-Chlorophenol	390.	U	390.	U	420.	U	370.	U
95-48-7	2-Methylphenol (o-Cresol)	390.	U	390.	U	420.	U	370.	U
108-60-1	2,2'-oxybis(1-Chloropropane)/bis(2-chlor	390.	U	390.	U	420.	U	370.	U
9999900-32-2	3-Methylphenol/4-Methylphenol	390.	U	390.	U	420.	U	370.	U
621-64-7	N-Nitroso-di-n-propylamine	390.	U	390.	U	420.	U	370.	U
67-72-1	Hexachloroethane	390.	U	390.	U	420.	U	370.	U
98-95-3	Nitrobenzene	390.	U	390.	U	420.	U	370.	U
78-59-1	Isophorone	390.	U	390.	U	420.	U	370.	U
88-75-5	2-Nitrophenol	390.	U	390.	U	420.	U	370.	U
105-67-9	2,4-Dimethylphenol	390.	U	390.	U	420.	U	370.	U
120-83-2	2,4-Dichlorophenol	390.	U	390.	U	420.	U	370.	U
106-47-8	4-Chloroaniline	390.	U	390.	U	420.	U	370.	U
111-91-1	bis(2-Chloroethoxy)methane	390.	U	390.	U	420.	U	370.	U
87-68-3	Hexachlorobutadiene	390.	U	390.	U	420.	U	370.	U
59-50-7	4-Chloro-3-methylphenol	390.	U	390.	U	420.	U	370.	U
91-57-6	2-Methylnaphthalene	390.	U	390.	U	420.	U	370.	U
77-47-4	Hexachlorocyclopentadiene	390.	U	390.	U	420.	U	370.	U
88-06-2	2,4,6-Trichlorophenol	390.	U	390.	U	420.	U	370.	U
95-95-4	2,4,5-Trichlorophenol	980.	U	990.	U	1000.	U	920.	U
91-58-7	2-Chloronaphthalene	390.	U	390.	U	420.	U	370.	U
88-74-4	2-Nitroaniline	980.	U	990.	U	1000.	U	920.	U
131-11-3	Dimethylphthalate	390.	U	390.	U	420.	U	370.	U
606-20-2	2,6-Dinitrotoluene	390.	U	390.	U	420.	U	370.	U
99-09-2	3-Nitroaniline	980.	U	990.	U	1000.	U	920.	U
51-28-5	2,4-Dinitrophenol	980.	U	990.	U	1000.	U	920.	U
100-02-7	4-Nitrophenol	980.	U	990.	U	1000.	U	920.	U
132-64-9	Dibenzofuran	390.	U	390.	U	420.	U	370.	U
121-14-2	2,4-Dinitrotoluene	390.	U	390.	U	420.	U	370.	U
84-66-2	Diethylphthalate	390.	U	390.	U	420.	U	370.	U
7005-72-3	4-Chlorophenylphenyl ether	390.	U	390.	U	420.	U	370.	U
100-01-6	4-Nitroaniline	980.	U	990.	U	1000.	U	920.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	980.	U	990.	U	1000.	U	920.	U
122-39-4	Diphenylamine	390.	U	390.	U	420.	U	370.	U
101-55-3	4-Bromophenyl-phenylether	390.	U	390.	U	420.	U	370.	U

\*\*\* Validation Complete \*\*\*

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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SVOA		SAMPLE ID ----->	LTS-S-BB01-18	LTS-C-BB01-18	LTS-S-BB02-18	LTS-S-BB02-25	LTS-S-BB03-05	LTS-S-BB03-14	
		ORIGINAL ID ----->	LTSSBB0118	LTSCBB0118	LTSSBB0218	LTSSBB0225	LTSSBB0305	LTSSBB0314	
		LAB SAMPLE ID ----->	S242909*5	S242909*6	S242909*3	S242909*4	S242909*9	S242909*10	
		ID FROM REPORT ----->	LTSSBB0118	LTSCBB0118	LTSSBB0218	LTSSBB0225	LTSSBB0305	LTSSBB0314	
		SAMPLE DATE ----->	04/26/02	04/26/02	04/26/02	04/26/02	04/26/02	04/26/02	
		DATE EXTRACTED ----->	05/01/02	05/01/02	05/01/02	05/01/02	05/01/02	05/01/02	
		DATE ANALYZED ----->	05/03/02	05/03/02	05/03/02	05/03/02	05/03/02	05/03/02	
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil	
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
CAS #	Parameter	209315	VAL	209315	VAL	209315	VAL	209315	VAL
118-74-1	Hexachlorobenzene	390.	U	390.	U	420.	U	370.	U
87-86-5	Pentachlorophenol	980.	U	990.	U	1000.	U	920.	U
86-74-8	Carbazole	390.	U	390.	U	420.	U	370.	U
84-74-2	Di-n-butylphthalate	390.	U	390.	U	420.	U	370.	U
85-68-7	Butylbenzylphthalate	390.	U	390.	U	420.	U	370.	U
91-94-1	3,3'-Dichlorobenzidine	390.	U	390.	U	420.	U	370.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	390.	U	390.	U	420.	U	370.	U
117-84-0	Di-n-octylphthalate	390.	U	390.	U	420.	U	370.	U
100-52-7	Benzaldehyde	390.	U	390.	U	420.	U	370.	U
98-86-2	Acetophenone	390.	U	390.	U	420.	U	370.	U
105-60-2	Caprolactam	390.	U	390.	U	420.	U	370.	U
92-52-4	1,1-Biphenyl	390.	U	390.	U	420.	U	370.	U
1912-24-9	Atrazine	390.	U	390.	U	420.	U	370.	U

\*\*\* Validation Complete \*\*\*



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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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SVQA		SAMPLE ID ----->	LTS-S-BB04-17	LTS-S-BB04-25	LTS-S-BB3B-12	LTS-S-BB3B-14	LTS-S-BB3B-16	LTS-S-BB3C-12	
		ORIGINAL ID ----->	LTSSBB0417	LTSSBB0425	LTSSBB3B12	LTSSBB3B14	LTSSBB3B16	LTSSBB3C12	
		LAB SAMPLE ID ----->	S242909*7	S242909*8	S243390*4	S243390*5	S243390*6	S243390*1	
		ID FROM REPORT ----->	LTSSBB0417	LTSSBB0425	LTSSBB3B12	LTSSBB3B14	LTSSBB3B16	LTSSBB3C12	
		SAMPLE DATE ----->	04/26/02	04/26/02	05/14/02	05/14/02	05/14/02	05/14/02	
		DATE EXTRACTED ----->	05/01/02	05/01/02	05/17/02	05/17/02	05/17/02	05/17/02	
		DATE ANALYZED ----->	05/03/02	05/03/02	05/24/02	05/24/02	05/24/02	05/24/02	
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil	
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
CAS #	Parameter	209315	VAL	209315	VAL	209722	VAL	209722	VAL
108-95-2	Phenol	380.	U	380.	U	380.	U	380.	U
111-44-4	bis(2-Chloroethyl)ether	380.	U	380.	U	380.	U	380.	U
95-57-8	2-Chlorophenol	380.	U	380.	U	380.	U	380.	U
95-48-7	2-Methylphenol (o-Cresol)	380.	U	380.	U	380.	U	380.	U
108-60-1	2,2'-oxybis(1-Chloropropane)/bis(2-chlor	380.	U	380.	U	380.	U	380.	U
9999900-32-2	3-Methylphenol/4-Methylphenol	380.	U	380.	U	380.	U	380.	U
621-64-7	N-Nitroso-di-n-propylamine	380.	U	380.	U	380.	U	380.	U
67-72-1	Hexachloroethane	380.	U	380.	U	380.	U	380.	U
98-95-3	Nitrobenzene	380.	U	380.	U	380.	U	380.	U
78-59-1	Isophorone	380.	U	380.	U	380.	U	380.	U
88-75-5	2-Nitrophenol	380.	U	380.	U	380.	U	380.	U
105-67-9	2,4-Dimethylphenol	380.	U	380.	U	380.	U	380.	U
120-83-2	2,4-Dichlorophenol	380.	U	380.	U	380.	U	380.	U
106-47-8	4-Chloroaniline	380.	U	380.	U	380.	U	380.	U
111-91-1	bis(2-Chloroethoxy)methane	380.	U	380.	U	380.	U	380.	U
87-68-3	Hexachlorobutadiene	380.	U	380.	U	380.	U	380.	U
59-50-7	4-Chloro-3-methylphenol	380.	U	380.	U	380.	U	380.	U
91-57-6	2-Methylnaphthalene	380.	U	380.	U	380.	U	380.	U
77-47-4	Hexachlorocyclopentadiene	380.	U	380.	U	380.	U	380.	U
88-06-2	2,4,6-Trichlorophenol	380.	U	380.	U	380.	U	380.	U
95-95-4	2,4,5-Trichlorophenol	960.	U	950.	U	960.	U	940.	U
91-58-7	2-Chloronaphthalene	380.	U	380.	U	380.	U	380.	U
88-74-4	2-Nitroaniline	960.	U	950.	U	960.	U	940.	U
131-11-3	Dimethylphthalate	380.	U	380.	U	380.	U	380.	U
606-20-2	2,6-Dinitrotoluene	380.	U	380.	U	380.	U	380.	U
99-09-2	3-Nitroaniline	960.	U	950.	U	960.	U	940.	U
51-28-5	2,4-Dinitrophenol	960.	U	950.	U	960.	U	940.	U
100-02-7	4-Nitrophenol	960.	U	950.	U	960.	U	940.	U
132-64-9	Dibenzofuran	380.	U	380.	U	380.	U	380.	U
121-14-2	2,4-Dinitrotoluene	380.	U	380.	U	380.	U	380.	U
84-66-2	Diethylphthalate	380.	U	380.	U	380.	U	380.	U
7005-72-3	4-Chlorophenylphenyl ether	380.	U	380.	U	380.	U	380.	U
100-01-6	4-Nitroaniline	960.	U	950.	U	960.	U	940.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	960.	U	950.	U	960.	U	940.	U
122-39-4	Diphenylamine	380.	U	380.	U	380.	U	380.	U
101-55-3	4-Bromophenyl-phenylether	380.	U	380.	U	380.	U	380.	U

\*\*\* Validation Complete \*\*\*

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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SVOA		SAMPLE ID ----->	LTS-S-BB04-17	LTS-S-BB04-25	LTS-S-BB3B-12	LTS-S-BB3B-14	LTS-S-BB3B-16	LTS-S-BB3C-12	
		ORIGINAL ID ----->	LTSSBB0417	LTSSBB0425	LTSSBB3B12	LTSSBB3B14	LTSSBB3B16	LTSSBB3C12	
		LAB SAMPLE ID ---->	S242909*7	S242909*8	S243390*4	S243390*5	S243390*6	S243390*1	
		ID FROM REPORT -->	LTSSBB0417	LTSSBB0425	LTSSBB3B12	LTSSBB3B14	LTSSBB3B16	LTSSBB3C12	
		SAMPLE DATE ----->	04/26/02	04/26/02	05/14/02	05/14/02	05/14/02	05/14/02	
		DATE EXTRACTED -->	05/01/02	05/01/02	05/17/02	05/17/02	05/17/02	05/17/02	
		DATE ANALYZED ---->	05/03/02	05/03/02	05/24/02	05/24/02	05/24/02	05/24/02	
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil	
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
CAS #	Parameter	209315	VAL	209315	VAL	209722	VAL	209722	VAL
118-74-1	Hexachlorobenzene	380.	U	380.	U	380.	U	380.	U
87-86-5	Pentachlorophenol	960.	U	950.	U	960.	U	940.	U
86-74-8	Carbazole	380.	U	380.	U	380.	U	380.	U
84-74-2	Di-n-butylphthalate	380.	U	380.	U	380.	U	380.	U
85-68-7	Butylbenzylphthalate	380.	U	380.	U	380.	U	380.	U
91-94-1	3,3'-Dichlorobenzidine	380.	U	380.	U	380.	U	380.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	380.	U	380.	U	380.	U	380.	U
117-84-0	Di-n-octylphthalate	380.	U	380.	U	380.	U	380.	U
100-52-7	Benzaldehyde	380.	U	380.	U	380.	U	380.	U
98-86-2	Acetophenone	380.	U	380.	U	380.	U	380.	U
105-60-2	Caprolactam	380.	U	380.	U	380.	U	380.	U
92-52-4	1,1-Biphenyl	380.	U	380.	U	380.	U	380.	U
1912-24-9	Atrazine	380.	U	380.	U	380.	U	380.	U

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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SVOA		SAMPLE ID ----->	LTS-S-BB3C-14	LTS-S-BB3C-16 RE	LTS-S-BB3D-12	LTS-S-BB3D-14	LTS-S-BB3D-16	LTS-C-BB3D-16	
		ORIGINAL ID ----->	LTSSBB3C14	LTSSBB3C16	LTSSBB3D12	LTSSBB3D14	LTSSBB3D16	LTSCBB3D16	
		LAB SAMPLE ID ---->	S243390*2	S243390*3*RE	S244037*5	S244037*6	S244037*7	S244037*8	
		ID FROM REPORT ---->	LTSSBB3C14	LTSSBB3C16	LTSSBB3D12	LTSSBB3D14	LTSSBB3D16	LTSCBB3D16	
		SAMPLE DATE ----->	05/14/02	05/14/02	06/07/02	06/07/02	06/07/02	06/07/02	
		DATE EXTRACTED ---->	05/17/02	05/17/02	06/19/02	06/19/02	06/19/02	06/19/02	
		DATE ANALYZED ---->	05/24/02	05/24/02	06/21/02	06/21/02	06/21/02	06/21/02	
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil	
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
CAS. #	Parameter	209722	VAL	209722	VAL	210146	VAL	210146	VAL
108-95-2	Phenol	380.	U	380.	U	370.	U	380.	U
111-44-4	bis(2-Chloroethyl)ether	380.	U	380.	U	370.	U	380.	U
95-57-8	2-Chlorophenol	380.	U	380.	U	370.	U	380.	U
95-48-7	2-Methylphenol (o-Cresol)	380.	U	380.	U	370.	U	380.	U
108-60-1	2,2'-oxybis(1-Chloropropane)/bis(2-chlor	380.	U	380.	U	370.	U	380.	U
9999900-32-2	3-Methylphenol/4-Methylphenol	380.	U	380.	U	370.	U	380.	U
621-64-7	N-Nitroso-di-n-propylamine	380.	U	380.	U	370.	U	380.	U
67-72-1	Hexachloroethane	380.	U	380.	U	370.	U	380.	U
98-95-3	Nitrobenzene	380.	U	380.	U	370.	U	380.	U
78-59-1	Isophorone	380.	U	380.	U	370.	U	380.	U
88-75-5	2-Nitrophenol	380.	U	380.	U	370.	U	380.	U
105-67-9	2,4-Dimethylphenol	380.	U	380.	U	370.	U	380.	U
120-83-2	2,4-Dichlorophenol	380.	U	380.	U	370.	U	380.	U
106-47-8	4-Chloroaniline	380.	U	380.	U	370.	U	380.	U
111-91-1	bis(2-Chloroethoxy)methane	380.	U	380.	U	370.	U	380.	U
87-68-3	Hexachlorobutadiene	380.	U	380.	U	370.	U	380.	U
59-50-7	4-Chloro-3-methylphenol	380.	U	380.	U	370.	U	380.	U
91-57-6	2-Methylnaphthalene	380.	U	380.	U	370.	U	380.	U
77-47-4	Hexachlorocyclopentadiene	380.	U	380.	U	370.	U	380.	U
88-06-2	2,4,6-Trichlorophenol	380.	U	380.	U	370.	U	380.	U
95-95-4	2,4,5-Trichlorophenol	960.	U	940.	U	930.	U	950.	U
91-58-7	2-Chloronaphthalene	380.	U	380.	U	370.	U	380.	U
88-74-4	2-Nitroaniline	960.	U	940.	U	930.	U	950.	U
131-11-3	Dimethylphthalate	380.	U	380.	U	370.	U	380.	U
606-20-2	2,6-Dinitrotoluene	380.	U	380.	U	370.	U	380.	U
99-09-2	3-Nitroaniline	960.	U	940.	U	930.	U	950.	U
51-28-5	2,4-Dinitrophenol	960.	U	940.	U	930.	U	950.	U
100-02-7	4-Nitrophenol	960.	U	940.	U	930.	U	950.	U
132-64-9	Dibenzofuran	380.	U	380.	U	370.	U	380.	U
121-14-2	2,4-Dinitrotoluene	380.	U	380.	U	370.	U	380.	U
84-66-2	Diethylphthalate	380.	U	380.	U	370.	U	380.	U
7005-72-3	4-Chlorophenylphenyl ether	380.	U	380.	U	370.	U	380.	U
100-01-6	4-Nitroaniline	960.	U	940.	U	930.	U	950.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	960.	U	940.	U	930.	U	950.	U
122-39-4	Diphenylamine	380.	U	380.	U	370.	U	380.	U
101-55-3	4-Bromophenyl-phenylether	380.	U	380.	U	370.	U	380.	U

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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SVQA		SAMPLE ID ----->	LTS-S-BB3C-14		LTS-S-BB3C-16 RE		LTS-S-BB3D-12		LTS-S-BB3D-14		LTS-S-BB3D-16		LTS-C-BB3D-16	
		ORIGINAL ID ----->	LTSSBB3C14		LTSSBB3C16		LTSSBB3D12		LTSSBB3D14		LTSSBB3D16		LTSCBB3D16	
		LAB SAMPLE ID ----->	S243390*2		S243390*3*RE		S244037*5		S244037*6		S244037*7		S244037*8	
		ID FROM REPORT ----->	LTSSBB3C14		LTSSBB3C16		LTSSBB3D12		LTSSBB3D14		LTSSBB3D16		LTSCBB3D16	
		SAMPLE DATE ----->	05/14/02		05/14/02		06/07/02		06/07/02		06/07/02		06/07/02	
		DATE EXTRACTED ----->	05/17/02		05/17/02		06/19/02		06/19/02		06/19/02		06/19/02	
		DATE ANALYZED ----->	05/24/02		05/24/02		06/21/02		06/21/02		06/21/02		06/21/02	
		MATRIX ----->	Soil		Soil		Soil		Soil		Soil		Soil	
		UNITS ----->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	209722	VAL	209722	VAL	210146	VAL	210146	VAL	210146	VAL	210146	VAL	
118-74-1	Hexachlorobenzene	380.	U	380.	U	370.	U	380.	U	380.	U	400.	U	
87-86-5	Pentachlorophenol	960.	U	940.	U	930.	U	950.	U	950.	U	1000.	U	
86-74-8	Carbazole	380.	U	380.	U	370.	U	380.	U	130.	J	87.	J	
84-74-2	Di-n-butylphthalate	380.	U	380.	U	370.	U	380.	U	380.	U	400.	U	
85-68-7	Butylbenzylphthalate	380.	U	380.	U	370.	U	380.	U	380.	U	400.	U	
91-94-1	3,3'-Dichlorobenzidine	380.	U	380.	U	370.	U	380.	U	380.	U	400.	U	
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	380.	U	380.	U	370.	U	60.	J	380.	U	400.	U	
117-84-0	Di-n-octylphthalate	380.	U	380.	U	370.	U	380.	U	380.	U	400.	U	
100-52-7	Benzaldehyde	380.	U	380.	U	370.	U	380.	U	380.	U	400.	U	
98-86-2	Acetophenone	380.	U	380.	U	370.	U	380.	U	380.	U	400.	U	
105-60-2	Caprolactam	380.	U	380.	U	370.	U	380.	U	380.	U	400.	U	
92-52-4	1,1-Biphenyl	380.	U	380.	U	370.	U	380.	U	380.	U	400.	U	
1912-24-9	Atrazine	380.	U	380.	U	370.	U	380.	U	380.	U	400.	U	

\*\*\* Validation Complete \*\*\*

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**LIBERTYVILLE TRAINING SITE**  
**6A & 7 FURTHER INVESTIGATION**  
**Magazines Bravo and Charlie Soil Samples**

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SVOA		SAMPLE ID ----->	LTS-S-BB3D-18	LTS-S-BB3E-12	LTS-S-BB3E-14	LTS-S-BB3E-16	LTS-S-BB3F-14	LTS-S-BB3F-16			
		ORIGINAL ID ----->	LTSSBB3D18	LTSSBB3E12	LTSSBB3E14	LTSSBB3E16	LTSSBB3F14	LTSSBB3F16			
		LAB SAMPLE ID ---->	S244969A*9	S243973*3	S243973*4	S243973*5	S244969A*6	S244969A*7			
		ID FROM REPORT ---->	LTSSBB3D18	LTSSBB3E12	LTSSBB3E14	LTSSBB3E16	LTSSBB3F14	LTSSBB3F16			
		SAMPLE DATE ----->	07/11/02	06/07/02	06/07/02	06/07/02	07/11/02	07/11/02			
		DATE EXTRACTED ---->	07/23/02	06/12/02	06/12/02	06/12/02	07/15/02	07/15/02			
		DATE ANALYZED ---->	07/24/02	06/14/02	06/14/02	06/14/02	07/19/02	07/19/02			
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil			
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG			
CAS #	Parameter	LIB07	VAL	210127	VAL	210127	VAL	LIB07	VAL	LIB07	VAL
108-95-2	Phenol	380.	U	380.	U	390.	U	380.	U	380.	U
111-44-4	bis(2-Chloroethyl)ether	380.	U	380.	U	390.	U	380.	U	380.	U
95-57-8	2-Chlorophenol	380.	U	380.	U	390.	U	380.	U	380.	U
95-48-7	2-Methylphenol (o-Cresol)	380.	U	380.	U	390.	U	380.	U	380.	U
108-60-1	2,2'-oxybis(1-Chloropropane)/bis(2-chlor	380.	U	380.	U	390.	U	380.	U	380.	U
9999900-32-2	3-Methylphenol/4-Methylphenol	380.	U	380.	U	390.	U	380.	U	380.	U
621-64-7	N-Nitroso-di-n-propylamine	380.	U	380.	U	390.	U	380.	U	380.	U
67-72-1	Hexachloroethane	380.	U	380.	U	390.	U	380.	U	380.	U
98-95-3	Nitrobenzene	380.	U	380.	U	390.	U	380.	U	380.	U
78-59-1	Isophorone	380.	U	380.	U	390.	U	380.	U	380.	U
88-75-5	2-Nitrophenol	380.	U	380.	U	390.	U	380.	U	380.	U
105-67-9	2,4-Dimethylphenol	380.	U	380.	U	390.	U	380.	U	380.	U
120-83-2	2,4-Dichlorophenol	380.	U	380.	U	390.	U	380.	U	380.	U
106-47-8	4-Chloroaniline	380.	U	380.	U	390.	U	380.	U	380.	U
111-91-1	bis(2-Chloroethoxy)methane	380.	U	380.	U	390.	U	380.	U	380.	U
87-68-3	Hexachlorobutadiene	380.	U	380.	U	390.	U	380.	U	380.	U
59-50-7	4-Chloro-3-methylphenol	380.	U	380.	U	390.	U	380.	U	380.	U
91-57-6	2-Methylnaphthalene	380.	U	380.	U	390.	U	380.	U	380.	U
77-47-4	Hexachlorocyclopentadiene	380.	U	380.	U	390.	U	380.	U	380.	U
88-06-2	2,4,6-Trichlorophenol	380.	U	380.	U	390.	U	380.	U	380.	U
95-95-4	2,4,5-Trichlorophenol	950.	U	940.	U	980.	U	940.	U	950.	U
91-58-7	2-Chloronaphthalene	380.	U	380.	U	390.	U	380.	U	380.	U
88-74-4	2-Nitroaniline	950.	U	940.	U	980.	U	940.	U	950.	U
131-11-3	Dimethylphthalate	380.	U	380.	U	390.	U	380.	U	380.	U
606-20-2	2,6-Dinitrotoluene	380.	U	380.	U	390.	U	380.	U	380.	U
99-09-2	3-Nitroaniline	950.	U	940.	U	980.	U	940.	U	950.	U
51-28-5	2,4-Dinitrophenol	950.	U	940.	U	980.	U	940.	U	950.	U
100-02-7	4-Nitrophenol	950.	U	940.	U	980.	U	940.	U	950.	U
132-64-9	Dibenzofuran	380.	U	380.	U	390.	U	40.	J	380.	U
121-14-2	2,4-Dinitrotoluene	380.	U	380.	U	390.	U	380.	U	380.	U
84-66-2	Diethylphthalate	380.	U	380.	U	390.	U	380.	U	380.	U
7005-72-3	4-Chlorophenylphenyl ether	380.	U	380.	U	390.	U	380.	U	380.	U
100-01-6	4-Nitroaniline	950.	U	940.	U	980.	U	940.	U	950.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	950.	U	940.	U	980.	U	940.	U	950.	U
122-39-4	Diphenylamine	380.	U	380.	U	390.	U	380.	U	380.	U
101-55-3	4-Bromophenyl-phenylether	380.	U	380.	U	390.	U	380.	U	380.	U

\*\*\* Validation Complete \*\*\*

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**LIBERTYVILLE TRAINING SITE**  
**6A & 7 FURTHER INVESTIGATION**  
**Magazines Bravo and Charlie Soil Samples**

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SVOA		SAMPLE ID ----->	LTS-S-BB3D-18	LTS-S-BB3E-12	LTS-S-BB3E-14	LTS-S-BB3E-16	LTS-S-BB3F-14	LTS-S-BB3F-16			
		ORIGINAL ID ----->	LTSSBB3D18	LTSSBB3E12	LTSSBB3E14	LTSSBB3E16	LTSSBB3F14	LTSSBB3F16			
		LAB SAMPLE ID ---->	S244969A*9	S243973*3	S243973*4	S243973*5	S244969A*6	S244969A*7			
		ID FROM REPORT -->	LTSSBB3D18	LTSSBB3E12	LTSSBB3E14	LTSSBB3E16	LTSSBB3F14	LTSSBB3F16			
		SAMPLE DATE ----->	07/11/02	06/07/02	06/07/02	06/07/02	07/11/02	07/11/02			
		DATE EXTRACTED -->	07/23/02	06/12/02	06/12/02	06/12/02	07/15/02	07/15/02			
		DATE ANALYZED ---->	07/24/02	06/14/02	06/14/02	06/14/02	07/19/02	07/19/02			
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil			
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG			
CAS #	Parameter	LIB07	VAL	210127	VAL	210127	VAL	LIB07	VAL	210127	VAL
118-74-1	Hexachlorobenzene	380.	U	380.	U	390.	U	380.	U	380.	U
87-86-5	Pentachlorophenol	950.	U	940.	U	980.	U	950.	U	960.	U
86-74-8	Carbazole	32.	J	380.	U	390.	U	56.	J	380.	U
84-74-2	Di-n-butylphthalate	380.	U	380.	U	390.	U	380.	U	380.	U
85-68-7	Butylbenzylphthalate	380.	U	380.	U	390.	U	380.	U	380.	U
91-94-1	3,3'-Dichlorobenzidine	380.	U	380.	U	390.	U	380.	U	380.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	380.	U	380.	U	390.	U	380.	U	380.	U
117-84-0	Di-n-octylphthalate	380.	U	380.	U	390.	U	380.	U	380.	U
100-52-7	Benzaldehyde	380.	U	380.	U	390.	U	380.	U	380.	U
98-86-2	Acetophenone	380.	U	380.	U	390.	U	380.	U	380.	U
105-60-2	Caprolactam	380.	U	380.	U	390.	U	380.	U	380.	U
92-52-4	1,1-Biphenyl	380.	U	380.	U	390.	U	380.	U	380.	U
1912-24-9	Atrazine	380.	U	380.	U	390.	U	380.	U	380.	U

\*\*\* Validation Complete \*\*\*



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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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SVOA		SAMPLE ID ----->	LTS-S-BB3F-18	LTS-S-BB3G-10	LTS-S-BB3G-12	LTS-S-BB3G-14	LTS-C-BB3G-14	LTS-S-BB3G-16			
		ORIGINAL ID ----->	LTSSBB3F18	LTSSBB3G10	LTSSBB3G12	LTSSBB3G14	LTSCBB3G14	LTSSBB3G16			
		LAB SAMPLE ID ---->	S244969A*8	S244969*13	S244969*14	S244969*15	S244969*16	S244969A*1			
		ID FROM REPORT -->	LTSSBB3F18	LTSSBB3G10	LTSSBB3G12	LTSSBB3G14	LTSCBB3G14	LTSSBB3G16			
		SAMPLE DATE ----->	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02			
		DATE EXTRACTED -->	07/15/02	07/15/02	07/15/02	07/15/02	07/15/02	07/15/02			
		DATE ANALYZED ---->	07/19/02	07/20/02	07/20/02	07/20/02	07/21/02	07/19/02			
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil			
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG			
CAS #	Parameter	LIB07	VAL	LIB08	VAL	LIB08	VAL	LIB08	VAL	LIB07	VAL
108-95-2	Phenol	380.	U	400.	U	390.	U	390.	U	3700.	U
111-44-4	bis(2-Chloroethyl)ether	380.	U	400.	U	390.	U	390.	U	3700.	U
95-57-8	2-Chlorophenol	380.	U	400.	U	390.	U	390.	U	3700.	U
95-48-7	2-Methylphenol (o-Cresol)	380.	U	400.	U	390.	U	390.	U	3700.	U
108-60-1	2,2'-oxybis(1-Chloropropane)/bis(2-chlor	380.	U	400.	U	390.	U	390.	U	3700.	U
9999900-32-2	3-Methylphenol/4-Methylphenol	380.	U	400.	U	390.	U	390.	U	630.	J
621-64-7	N-Nitroso-di-n-propylamine	380.	U	400.	U	390.	U	390.	U	3700.	U
67-72-1	Hexachloroethane	380.	U	400.	U	390.	U	390.	U	3700.	U
98-95-3	Nitrobenzene	380.	U	400.	U	390.	U	390.	U	3700.	U
78-59-1	Isophorone	380.	U	400.	U	390.	U	390.	U	3700.	U
88-75-5	2-Nitrophenol	380.	U	400.	U	390.	U	390.	U	3700.	U
105-67-9	2,4-Dimethylphenol	380.	U	400.	U	390.	U	390.	U	3700.	U
120-83-2	2,4-Dichlorophenol	380.	U	400.	U	390.	U	390.	U	3700.	U
106-47-8	4-Chloroaniline	380.	U	400.	U	390.	U	390.	U	3700.	U
111-91-1	bis(2-Chloroethoxy)methane	380.	U	400.	U	390.	U	390.	U	3700.	U
87-68-3	Hexachlorobutadiene	380.	U	400.	U	390.	U	390.	U	3700.	U
59-50-7	4-Chloro-3-methylphenol	380.	U	400.	U	390.	U	390.	U	3700.	U
91-57-6	2-Methylnaphthalene	380.	U	400.	U	390.	U	390.	U	5100.	J
77-47-4	Hexachlorocyclopentadiene	380.	U	400.	U	390.	U	390.	U	3700.	U
88-06-2	2,4,6-Trichlorophenol	380.	U	400.	U	390.	U	390.	U	3700.	U
95-95-4	2,4,5-Trichlorophenol	960.	U	1000.	U	980.	U	990.	U	9200.	U
91-58-7	2-Chloronaphthalene	380.	U	400.	U	390.	U	390.	U	3700.	U
88-74-4	2-Nitroaniline	960.	U	1000.	U	980.	U	990.	U	9200.	U
131-11-3	Dimethylphthalate	380.	U	400.	U	390.	U	390.	U	3700.	U
606-20-2	2,6-Dinitrotoluene	380.	U	400.	U	390.	U	390.	U	3700.	U
99-09-2	3-Nitroaniline	960.	U	1000.	U	980.	U	990.	U	9200.	U
51-28-5	2,4-Dinitrophenol	960.	U	1000.	U	980.	U	990.	U	9200.	U
100-02-7	4-Nitrophenol	960.	U	1000.	U	980.	U	990.	U	9200.	U
132-64-9	Dibenzofuran	380.	U	400.	U	390.	U	390.	U	10000.	J
121-14-2	2,4-Dinitrotoluene	380.	U	400.	U	390.	U	390.	U	3700.	U
84-66-2	Diethylphthalate	380.	U	400.	U	390.	U	390.	U	3700.	U
7005-72-3	4-Chlorophenylphenyl ether	380.	U	400.	U	390.	U	390.	U	3700.	U
100-01-6	4-Nitroaniline	960.	U	1000.	U	980.	U	990.	U	9200.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	960.	U	1000.	U	980.	U	990.	U	9200.	U
122-39-4	Diphenylamine	380.	U	400.	U	390.	U	390.	U	3700.	U
101-55-3	4-Bromophenyl-phenylether	380.	U	400.	U	390.	U	390.	U	3700.	U

\*\*\* Validation Complete \*\*\*

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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SVOA		SAMPLE ID ----->	LTS-S-BB3F-18	LTS-S-BB3G-10	LTS-S-BB3G-12	LTS-S-BB3G-14	LTS-C-BB3G-14	LTS-S-BB3G-16			
		ORIGINAL ID ----->	LTSSBB3F18	LTSSBB3G10	LTSSBB3G12	LTSSBB3G14	LTSCBB3G14	LTSSBB3G16			
		LAB SAMPLE ID ----->	S244969A*8	S244969*13	S244969*14	S244969*15	S244969*16	S244969A*1			
		ID FROM REPORT ----->	LTSSBB3F18	LTSSBB3G10	LTSSBB3G12	LTSSBB3G14	LTSCBB3G14	LTSSBB3G16			
		SAMPLE DATE ----->	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02			
		DATE EXTRACTED ----->	07/15/02	07/15/02	07/15/02	07/15/02	07/15/02	07/15/02			
		DATE ANALYZED ----->	07/19/02	07/20/02	07/20/02	07/20/02	07/21/02	07/19/02			
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil			
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG			
CAS #	Parameter	LIB07	VAL	LIB08	VAL	LIB08	VAL	LIB08	VAL	LIB07	VAL
118-74-1	Hexachlorobenzene	380.	U	400.	U	390.	U	390.	U	380.	U
87-86-5	Pentachlorophenol	960.	U	1000.	U	980.	U	990.	U	960.	U
86-74-8	Carbazole	380.	U	400.	U	390.	U	390.	UJ	380.	U
84-74-2	Di-n-butylphthalate	380.	U	400.	U	390.	U	390.	U	380.	U
85-68-7	Butylbenzylphthalate	380.	U	400.	U	390.	U	390.	U	380.	U
91-94-1	3,3'-Dichlorobenzidine	380.	U	400.	U	390.	U	390.	U	380.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	380.	U	400.	U	390.	U	390.	U	380.	U
117-84-0	Di-n-octylphthalate	380.	U	400.	U	390.	U	390.	U	380.	U
100-52-7	Benzaldehyde	380.	U	400.	U	390.	U	390.	U	380.	U
98-86-2	Acetophenone	380.	U	400.	U	390.	U	390.	U	380.	U
105-60-2	Caprolactam	380.	U	400.	U	390.	U	390.	U	380.	U
92-52-4	1,1-Biphenyl	380.	U	400.	U	390.	U	390.	U	380.	U
1912-24-9	Atrazine	380.	U	400.	U	390.	U	390.	U	380.	U

\*\*\* Validation Complete \*\*\*



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**LIBERTYVILLE TRAINING SITE**  
**6A & 7 FURTHER INVESTIGATION**  
**Magazines Bravo and Charlie Soil Samples**

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SVQA		SAMPLE ID ----->	LTS-S-BB3G-18	LTS-S-BB3H-14	LTS-S-BB3H-16	LTS-S-BB3H-18	LTS-S-BB3I-14	LTS-S-BB3I-16	
		ORIGINAL ID ----->	LTSSBB3G18	LTSSBB3H14	LTSSBB3H16	LTSSBB3H18	LTSSBB3I14	LTSSBB3I16	
		LAB SAMPLE ID ----->	S244969A*2	S244969A*3	S244969A*4	S244969A*5	S244969*10	S244969*11	
		ID FROM REPORT ----->	LTSSBB3G18	LTSSBB3H14	LTSSBB3H16	LTSSBB3H18	LTSSBB3I14	LTSSBB3I16	
		SAMPLE DATE ----->	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	
		DATE EXTRACTED ----->	07/15/02	07/15/02	07/15/02	07/15/02	07/15/02	07/15/02	
		DATE ANALYZED ----->	07/19/02	07/19/02	07/19/02	07/19/02	07/20/02	07/21/02	
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil	
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
CAS #	Parameter	LIB07	VAL	LIB07	VAL	LIB07	VAL	LIB08	VAL
108-95-2	Phenol	380.	U	380.	U	390.	U	380.	U
111-44-4	bis(2-Chloroethyl)ether	380.	U	380.	U	390.	U	380.	U
95-57-8	2-Chlorophenol	380.	U	380.	U	390.	U	380.	U
95-48-7	2-Methylphenol (o-Cresol)	380.	U	380.	U	390.	U	380.	U
108-60-1	2,2'-oxybis(1-Chloropropane)/bis(2-chlor	380.	U	380.	U	390.	U	380.	U
9999900-32-2	3-Methylphenol/4-Methylphenol	380.	U	380.	U	390.	U	380.	U
621-64-7	N-Nitroso-di-n-propylamine	380.	U	380.	U	390.	U	380.	U
67-72-1	Hexachloroethane	380.	U	380.	U	390.	U	380.	U
98-95-3	Nitrobenzene	380.	U	380.	U	390.	U	380.	U
78-59-1	Isophorone	380.	U	380.	U	390.	U	380.	U
88-75-5	2-Nitrophenol	380.	U	380.	U	390.	U	380.	U
105-67-9	2,4-Dimethylphenol	380.	U	380.	U	390.	U	380.	U
120-83-2	2,4-Dichlorophenol	380.	U	380.	U	390.	U	380.	U
106-47-8	4-Chloroaniline	380.	U	380.	U	390.	U	380.	U
111-91-1	bis(2-Chloroethoxy)methane	380.	U	380.	U	390.	U	380.	U
87-68-3	Hexachlorobutadiene	380.	U	380.	U	390.	U	380.	U
59-50-7	4-Chloro-3-methylphenol	380.	U	380.	U	390.	U	380.	U
91-57-6	2-Methylnaphthalene	380.	U	380.	U	390.	U	380.	U
77-47-4	Hexachlorocyclopentadiene	380.	U	380.	U	390.	U	380.	U
88-06-2	2,4,6-Trichlorophenol	380.	U	380.	U	390.	U	380.	U
95-95-4	2,4,5-Trichlorophenol	940.	U	960.	U	980.	U	940.	U
91-58-7	2-Chloronaphthalene	380.	U	380.	U	390.	U	380.	U
88-74-4	2-Nitroaniline	940.	U	960.	U	980.	U	940.	U
131-11-3	Dimethylphthalate	380.	U	380.	U	390.	U	380.	U
606-20-2	2,6-Dinitrotoluene	380.	U	380.	U	390.	U	380.	U
99-09-2	3-Nitroaniline	940.	U	960.	U	980.	U	940.	U
51-28-5	2,4-Dinitrophenol	940.	U	960.	U	980.	U	940.	U
100-02-7	4-Nitrophenol	940.	U	960.	U	980.	U	940.	U
132-64-9	Dibenzofuran	380.	U	380.	U	390.	U	380.	U
121-14-2	2,4-Dinitrotoluene	380.	U	380.	U	390.	U	380.	U
84-66-2	Diethylphthalate	380.	U	380.	U	390.	U	380.	U
7005-72-3	4-Chlorophenylphenyl ether	380.	U	380.	U	390.	U	380.	U
100-01-6	4-Nitroaniline	940.	U	960.	U	980.	U	940.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	940.	U	960.	U	980.	U	940.	U
122-39-4	Diphenylamine	380.	U	380.	U	390.	U	380.	U
101-55-3	4-Bromophenyl-phenylether	380.	U	380.	U	390.	U	380.	U

\*\*\* Validation Complete \*\*\*

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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SVOA		SAMPLE ID ----->	LTS-S-BB3G-18	LTS-S-BB3H-14	LTS-S-BB3H-16	LTS-S-BB3H-18	LTS-S-BB31-14	LTS-S-BB31-16	
		ORIGINAL ID ----->	LTSSBB3G18	LTSSBB3H14	LTSSBB3H16	LTSSBB3H18	LTSSBB3114	LTSSBB3116	
		LAB SAMPLE ID ---->	S244969A*2	S244969A*3	S244969A*4	S244969A*5	S244969*10	S244969*11	
		ID FROM REPORT -->	LTSSBB3G18	LTSSBB3H14	LTSSBB3H16	LTSSBB3H18	LTSSBB3114	LTSSBB3116	
		SAMPLE DATE ----->	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	
		DATE EXTRACTED -->	07/15/02	07/15/02	07/15/02	07/15/02	07/15/02	07/15/02	
		DATE ANALYZED ---->	07/19/02	07/19/02	07/19/02	07/19/02	07/20/02	07/21/02	
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil	
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
CAS #	Parameter	LIB07	VAL	LIB07	VAL	LIB07	VAL	LIB08	VAL
118-74-1	Hexachlorobenzene	380.	U	380.	U	390.	U	380.	U
87-86-5	Pentachlorophenol	940.	U	960.	U	980.	U	940.	U
86-74-8	Carbazole	380.	U	380.	U	62.	J	380.	U
84-74-2	Di-n-butylphthalate	380.	U	380.	U	390.	U	35.	J
85-68-7	Butylbenzylphthalate	380.	U	380.	U	390.	U	380.	U
91-94-1	3,3'-Dichlorobenzidine	380.	U	380.	U	390.	U	380.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	380.	U	380.	U	390.	U	380.	U
117-84-0	Di-n-octylphthalate	380.	U	380.	U	390.	U	380.	U
100-52-7	Benzaldehyde	380.	U	380.	U	390.	U	380.	U
98-86-2	Acetophenone	380.	U	380.	U	390.	U	380.	U
105-60-2	Caprolactam	380.	U	380.	U	390.	U	380.	U
92-52-4	1,1-Biphenyl	380.	U	380.	U	390.	U	380.	U
1912-24-9	Atrazine	380.	U	380.	U	390.	U	380.	U

\*\*\* Validation Complete \*\*\*

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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SVOA		SAMPLE ID ----->	LTS-S-BB31-18	LTS-S-BB3J-10	LTS-C-BB3J-10	LTS-S-BB3J-12	LTS-S-BB3J-14	LTS-S-BB3K-10	
		ORIGINAL ID ----->	LTSSBB3118	LTSSBB3J10	LTSCBB3J10	LTSSBB3J12	LTSSBB3J14	LTSSBB3K10	
		LAB SAMPLE ID ---->	S244969*12	S244969*6	S244969*7	S244969*8	S244969*9	S244969*3	
		ID FROM REPORT -->	LTSSBB3118	LTSSBB3J10	LTSCBB3J10	LTSSBB3J12	LTSSBB3J14	LTSSBB3K10	
		SAMPLE DATE ----->	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	
		DATE EXTRACTED -->	07/15/02	07/15/02	07/15/02	07/15/02	07/15/02	07/15/02	
		DATE ANALYZED ---->	07/20/02	07/20/02	07/20/02	07/20/02	07/20/02	07/19/02	
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil	
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
CAS #	Parameter	LIB08	VAL	LIB08	VAL	LIB08	VAL	LIB08	VAL
108-95-2	Phenol	380.	U	390.	U	400.	U	390.	U
111-44-4	bis(2-Chloroethyl)ether	380.	U	390.	U	400.	U	380.	U
95-57-8	2-Chlorophenol	380.	U	390.	U	400.	U	380.	U
95-48-7	2-Methylphenol (o-Cresol)	380.	U	390.	U	400.	U	380.	U
108-60-1	2,2'-oxybis(1-Chloropropane)/bis(2-chlor	380.	U	390.	U	400.	U	380.	U
9999900-32-2	3-Methylphenol/4-Methylphenol	380.	U	390.	U	400.	U	380.	U
621-64-7	N-Nitroso-di-n-propylamine	380.	U	390.	U	400.	U	380.	U
67-72-1	Hexachloroethane	380.	U	390.	U	400.	U	380.	U
98-95-3	Nitrobenzene	380.	U	390.	U	400.	U	380.	U
78-59-1	Isophorone	380.	U	390.	U	400.	U	380.	U
88-75-5	2-Nitrophenol	380.	U	390.	U	400.	U	380.	U
105-67-9	2,4-Dimethylphenol	380.	U	390.	U	400.	U	380.	U
120-83-2	2,4-Dichlorophenol	380.	U	390.	U	400.	U	380.	U
106-47-8	4-Chloroaniline	380.	U	390.	U	400.	U	380.	U
111-91-1	bis(2-Chloroethoxy)methane	380.	U	390.	U	400.	U	380.	U
87-68-3	Hexachlorobutadiene	380.	U	390.	U	400.	U	380.	U
59-50-7	4-Chloro-3-methylphenol	380.	U	390.	U	400.	U	380.	U
91-57-6	2-Methylnaphthalene	380.	U	390.	U	400.	U	380.	U
77-47-4	Hexachlorocyclopentadiene	380.	U	390.	U	400.	U	380.	U
88-06-2	2,4,6-Trichlorophenol	380.	U	390.	U	400.	U	380.	U
95-95-4	2,4,5-Trichlorophenol	940.	U	980.	U	1000.	U	950.	U
91-58-7	2-Chloronaphthalene	380.	U	390.	U	400.	U	380.	U
88-74-4	2-Nitroaniline	940.	U	980.	U	1000.	U	950.	U
131-11-3	Dimethylphthalate	380.	U	390.	U	400.	U	380.	U
606-20-2	2,6-Dinitrotoluene	380.	U	390.	U	400.	U	380.	U
99-09-2	3-Nitroaniline	940.	U	980.	U	1000.	U	950.	U
51-28-5	2,4-Dinitrophenol	940.	U	980.	U	1000.	U	950.	U
100-02-7	4-Nitrophenol	940.	U	980.	U	1000.	U	950.	U
132-64-9	Dibenzofuran	380.	U	390.	U	400.	U	380.	U
121-14-2	2,4-Dinitrotoluene	380.	U	390.	U	400.	U	380.	U
84-66-2	Diethylphthalate	380.	U	390.	U	400.	U	380.	U
7005-72-3	4-Chlorophenylphenyl ether	380.	U	390.	U	400.	U	380.	U
100-01-6	4-Nitroaniline	940.	U	980.	U	1000.	U	950.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	940.	U	980.	U	1000.	U	950.	U
122-39-4	Diphenylamine	380.	U	390.	U	400.	U	380.	U
101-55-3	4-Bromophenyl-phenylether	380.	U	390.	U	400.	U	380.	U

\*\*\* Validation Complete \*\*\*

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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SVOA		SAMPLE ID ----->	LTS-S-BB31-18	LTS-S-BB3J-10	LTS-C-BB3J-10	LTS-S-BB3J-12	LTS-S-BB3J-14	LTS-S-BB3K-10	
		ORIGINAL ID ----->	LTSSBB3118	LTSSBB3J10	LTSCBB3J10	LTSSBB3J12	LTSSBB3J14	LTSSBB3K10	
		LAB SAMPLE ID ---->	S244969*12	S244969*6	S244969*7	S244969*8	S244969*9	S244969*3	
		ID FROM REPORT -->	LTSSBB3118	LTSSBB3J10	LTSCBB3J10	LTSSBB3J12	LTSSBB3J14	LTSSBB3K10	
		SAMPLE DATE ----->	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	
		DATE EXTRACTED -->	07/15/02	07/15/02	07/15/02	07/15/02	07/15/02	07/15/02	
		DATE ANALYZED ---->	07/20/02	07/20/02	07/20/02	07/20/02	07/20/02	07/19/02	
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil	
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
CAS #	Parameter	LIB08	VAL	LIB08	VAL	LIB08	VAL	LIB08	VAL
118-74-1	Hexachlorobenzene	380.	U	390.	U	400.	U	390.	U
87-86-5	Pentachlorophenol	940.	U	980.	U	1000.	U	980.	U
86-74-8	Carbazole	380.	U	390.	U	400.	U	390.	U
84-74-2	Di-n-butylphthalate	380.	U	390.	U	400.	U	390.	U
85-68-7	Butylbenzylphthalate	380.	U	390.	U	400.	U	390.	U
91-94-1	3,3'-Dichlorobenzidine	380.	U	390.	U	400.	U	390.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	380.	U	390.	U	400.	U	390.	U
117-84-0	Di-n-octylphthalate	380.	U	390.	U	400.	U	390.	U
100-52-7	Benzaldehyde	380.	U	390.	U	400.	U	390.	U
98-86-2	Acetophenone	380.	U	390.	U	400.	U	390.	U
105-60-2	Caprolactam	380.	U	390.	U	400.	U	390.	U
92-52-4	1,1-Biphenyl	380.	U	390.	U	400.	U	390.	U
1912-24-9	Atrazine	380.	U	390.	U	400.	U	390.	U

\*\*\* Validation Complete \*\*\*

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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SVOA		SAMPLE ID ----->	LTS-S-BB3K-12	LTS-S-BB3K-14	LTS-S-BC02-12	LTS-S-BC04-22	LTS-C-BC04-22		
		ORIGINAL ID ----->	LTSSBB3K12	LTSSBB3K14	LTSSBC0212	LTSSBC0422	LTSCBC0422		
		LAB SAMPLE ID ---->	S244969*4	S244969*5	S242909*13	S242909*11	S242909*12		
		ID FROM REPORT -->	LTSSBB3K12	LTSSBB3K14	LTSSBC0212	LTSSBC0422	LTSCBC0422		
		SAMPLE DATE ----->	07/11/02	07/11/02	04/26/02	04/26/02	04/26/02		
		DATE EXTRACTED -->	07/15/02	07/15/02	05/01/02	05/01/02	05/01/02		
		DATE ANALYZED ---->	07/20/02	07/22/02	05/03/02	05/03/02	05/03/02		
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil		
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG		
CAS #	Parameter	LIB08	VAL	LIB08	VAL	209315	VAL	209315	VAL
108-95-2	Phenol	380.	U	380.	U	380.	U	390.	U
111-44-4	bis(2-Chloroethyl)ether	380.	U	380.	U	380.	U	390.	U
95-57-8	2-Chlorophenol	380.	U	380.	U	380.	U	390.	U
95-48-7	2-Methylphenol (o-Cresol)	380.	U	380.	U	380.	U	390.	U
108-60-1	2,2'-oxybis(1-Chloropropane)/bis(2-chlor	380.	U	380.	U	380.	U	390.	U
9999900-32-2	3-Methylphenol/4-Methylphenol	380.	U	380.	U	380.	U	390.	U
621-64-7	N-Nitroso-di-n-propylamine	380.	U	380.	U	380.	U	390.	U
67-72-1	Hexachloroethane	380.	U	380.	U	380.	U	390.	U
98-95-3	Nitrobenzene	380.	U	380.	U	380.	U	390.	U
78-59-1	Isophorone	380.	U	380.	U	380.	U	390.	U
88-75-5	2-Nitrophenol	380.	U	380.	U	380.	U	390.	U
105-67-9	2,4-Dimethylphenol	380.	U	380.	U	380.	U	390.	U
120-83-2	2,4-Dichlorophenol	380.	U	380.	U	380.	U	390.	U
106-47-8	4-Chloroaniline	380.	U	380.	U	380.	U	390.	U
111-91-1	bis(2-Chloroethoxy)methane	380.	U	380.	U	380.	U	390.	U
87-68-3	Hexachlorobutadiene	380.	U	380.	U	380.	U	390.	U
59-50-7	4-Chloro-3-methylphenol	380.	U	380.	U	380.	U	390.	U
91-57-6	2-Methylnaphthalene	380.	U	380.	U	380.	U	390.	U
77-47-4	Hexachlorocyclopentadiene	380.	U	380.	U	380.	U	390.	U
88-06-2	2,4,6-Trichlorophenol	380.	U	380.	U	380.	U	390.	U
95-95-4	2,4,5-Trichlorophenol	960.	U	940.	U	960.	U	990.	U
91-58-7	2-Chloronaphthalene	380.	U	380.	U	380.	U	390.	U
88-74-4	2-Nitroaniline	960.	U	940.	U	960.	U	990.	U
131-11-3	Dimethylphthalate	380.	U	380.	U	380.	U	390.	U
606-20-2	2,6-Dinitrotoluene	380.	U	380.	U	380.	U	390.	U
99-09-2	3-Nitroaniline	960.	U	940.	U	960.	U	990.	U
51-28-5	2,4-Dinitrophenol	960.	U	940.	U	960.	U	990.	U
100-02-7	4-Nitrophenol	960.	U	940.	U	960.	U	990.	U
132-64-9	Dibenzofuran	380.	U	380.	U	380.	U	390.	U
121-14-2	2,4-Dinitrotoluene	380.	U	380.	U	380.	U	390.	U
84-66-2	Diethylphthalate	380.	U	380.	U	380.	U	390.	U
7005-72-3	4-Chlorophenylphenyl ether	380.	U	380.	U	380.	U	390.	U
100-01-6	4-Nitroaniline	960.	U	940.	U	960.	U	990.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	960.	U	940.	U	960.	U	990.	U
122-39-4	Diphenylamine	380.	U	380.	U	380.	U	390.	U
101-55-3	4-Bromophenyl-phenylether	380.	U	380.	U	380.	U	390.	U

\*\*\* Validation Complete \*\*\*

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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SVOA		SAMPLE ID ----->		LTS-S-BB3K-12	LTS-S-BB3K-14	LTS-S-BC02-12	LTS-S-BC04-22	LTS-C-BC04-22	
		ORIGINAL ID ----->		LTSSBB3K12	LTSSBB3K14	LTSSBC0212	LTSSBC0422	LTSCBC0422	
		LAB SAMPLE ID ----->		S244969*4	S244969*5	S242909*13	S242909*11	S242909*12	
		ID FROM REPORT ----->		LTSSBB3K12	LTSSBB3K14	LTSSBC0212	LTSSBC0422	LTSCBC0422	
		SAMPLE DATE ----->		07/11/02	07/11/02	04/26/02	04/26/02	04/26/02	
		DATE EXTRACTED ----->		07/15/02	07/15/02	05/01/02	05/01/02	05/01/02	
		DATE ANALYZED ----->		07/20/02	07/22/02	05/03/02	05/03/02	05/03/02	
		MATRIX ----->		Soil	Soil	Soil	Soil	Soil	
		UNITS ----->		UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
CAS #	Parameter	L1B08	VAL	L1B08	VAL	209315	VAL	209315	VAL
118-74-1	Hexachlorobenzene	380.	U	380.	U	380.	U	380.	U
87-86-5	Pentachlorophenol	960.	U	940.	U	960.	U	940.	U
86-74-8	Carbazole	380.	U	380.	U	380.	U	76.	J
84-74-2	Di-n-butylphthalate	380.	U	380.	U	380.	U	380.	U
85-68-7	Butylbenzylphthalate	380.	U	380.	U	380.	U	380.	U
91-94-1	3,3'-Dichlorobenzidine	380.	U	380.	U	380.	U	380.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	380.	U	380.	U	380.	U	380.	U
117-84-0	Di-n-octylphthalate	380.	U	380.	U	380.	U	380.	U
100-52-7	Benzaldehyde	380.	U	380.	U	380.	U	380.	U
98-86-2	Acetophenone	380.	U	380.	U	380.	U	380.	U
105-60-2	Caprolactam	380.	U	380.	U	380.	U	380.	U
92-52-4	1,1-Biphenyl	380.	U	380.	U	380.	U	380.	U
1912-24-9	Atrazine	380.	U	380.	U	380.	U	380.	U

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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VOA		SAMPLE ID ----->	LTS-C-BB01-18	LTS-S-BB01-18	LTS-S-BB02-18	LTS-S-BB02-25	LTS-S-BB03-05	LTS-S-BB03-14	
		ORIGINAL ID ----->	LTSCBB0118	LTSSBB0118	LTSSBB0218	LTSSBB0225	LTSSBB0305	LTSSBB0314	
		LAB SAMPLE ID ----->	209315-010	209315-009	209315-007	209315-008	209315-013	209315-014	
		ID FROM REPORT ----->	LTSCBB0118	LTSSBB0118	LTSSBB0218	LTSSBB0225	LTSSBB0305	LTSSBB0314	
		SAMPLE DATE ----->	04/26/02	04/26/02	04/26/02	04/26/02	04/26/02	04/26/02	
		DATE EXTRACTED ----->	04/26/02	04/26/02	04/26/02	04/26/02	04/26/02	04/26/02	
		DATE ANALYZED ----->	05/07/02	05/07/02	05/06/02	05/06/02	05/07/02	05/07/02	
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil	
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
CAS #	Parameter	209315	VAL	209315	VAL	209315	VAL	209315	VAL
74-87-3	Chloromethane	9.	U	9.	U	8.	U	9.	U
74-83-9	Bromomethane	9.	U	9.	U	8.	U	9.	U
75-01-4	Vinyl chloride	9.	U	9.	U	8.	U	9.	U
75-00-3	Chloroethane	9.	U	9.	U	8.	U	9.	U
75-09-2	Methylene chloride	9.	U	9.	U	8.	U	9.	U
67-64-1	Acetone	11.		10.		10.		26.	
75-15-0	Carbon disulfide	9.	U	9.	U	8.	U	9.	U
75-35-4	1,1-Dichloroethene	9.	U	9.	U	8.	U	9.	U
75-34-3	1,1-Dichloroethane	9.	U	9.	U	8.	U	9.	U
67-66-3	Chloroform	9.	U	9.	U	8.	U	9.	U
107-06-2	1,2-Dichloroethane	9.	U	9.	U	8.	U	9.	U
78-93-3	2-Butanone (MEK)	9.	U	9.	U	8.	U	9.	U
71-55-6	1,1,1-Trichloroethane	9.	U	9.	U	8.	U	9.	U
56-23-5	Carbon tetrachloride	9.	U	9.	U	8.	U	9.	U
75-27-4	Bromodichloromethane	9.	U	9.	U	8.	U	9.	U
78-87-5	1,2-Dichloropropane	9.	U	9.	U	8.	U	9.	U
10061-01-5	cis-1,3-Dichloropropene	9.	U	9.	U	8.	U	9.	U
79-01-6	Trichloroethene	9.	U	9.	U	8.	U	9.	U
124-48-1	Dibromochloromethane	9.	U	9.	U	8.	U	9.	U
79-00-5	1,1,2-Trichloroethane	9.	U	9.	U	8.	U	9.	U
71-43-2	Benzene	9.	U	9.	U	8.	U	9.	U
10061-02-6	trans-1,3-Dichloropropene	9.	U	9.	U	8.	U	9.	U
75-25-2	Bromoform	9.	U	9.	U	8.	U	9.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	9.	UJ	9.	U	8.	U	9.	UJ
591-78-6	2-Hexanone	9.	UJ	9.	U	8.	U	9.	UJ
127-18-4	Tetrachloroethene	9.	UJ	9.	U	8.	U	9.	UJ
79-34-5	1,1,2,2-Tetrachloroethane	9.	UJ	9.	U	8.	U	9.	UJ
108-88-3	Toluene	9.	UJ	9.	U	8.	U	9.	UJ
108-90-7	Chlorobenzene	9.	UJ	9.	U	8.	U	9.	UJ
100-41-4	Ethylbenzene	9.	UJ	9.	U	8.	U	9.	UJ
100-42-5	Styrene	9.	UJ	9.	U	8.	U	9.	UJ
1330-20-7	Xylene (Total)	9.	UJ	9.	U	8.	U	9.	UJ
156-59-2	cis-1,2-Dichloroethene	9.	U	9.	U	8.	U	9.	U
156-60-5	trans-1,2-Dichloroethene	9.	U	9.	U	8.	U	9.	U
1634-04-4	Methyl tert-butyl ether	9.	U	9.	U	8.	U	9.	U
75-71-8	Dichlorodifluoromethane	9.	U	9.	U	8.	U	9.	U

\*\*\* Validation Complete \*\*\*

LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

VOA		SAMPLE ID ----->	LTS-C-BB01-18	LTS-S-BB01-18	LTS-S-BB02-18	LTS-S-BB02-25	LTS-S-BB03-05	LTS-S-BB03-14	
		ORIGINAL ID ----->	LTSCBB0118	LTSSBB0118	LTSSBB0218	LTSSBB0225	LTSSBB0305	LTSSBB0314	
		LAB SAMPLE ID ----->	209315-010	209315-009	209315-007	209315-008	209315-013	209315-014	
		ID FROM REPORT ----->	LTSCBB0118	LTSSBB0118	LTSSBB0218	LTSSBB0225	LTSSBB0305	LTSSBB0314	
		SAMPLE DATE ----->	04/26/02	04/26/02	04/26/02	04/26/02	04/26/02	04/26/02	
		DATE EXTRACTED ----->	04/26/02	04/26/02	04/26/02	04/26/02	04/26/02	04/26/02	
		DATE ANALYZED ----->	05/07/02	05/07/02	05/06/02	05/06/02	05/07/02	05/07/02	
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil	
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
CAS #	Parameter	209315	VAL	209315	VAL	209315	VAL	209315	VAL
75-69-4	Trichlorofluoromethane	9.	U	9.	U	8.	U	9.	U
76-13-1	Trichlorotrifluoroethane (Freon 113)	9.	U	9.	U	8.	U	9.	U
79-20-9	Methyl Acetate	9.	U	9.	U	8.	U	9.	U
110-82-7	Cyclohexane	9.	U	9.	U	8.	U	9.	U
108-87-2	Methyl Cyclohexane	9.	U	9.	U	8.	U	9.	U
106-93-4	1,2-Dibromoethane	9.	UJ	9.	U	8.	U	9.	UJ
98-82-8	Isopropylbenzene	9.	UJ	9.	U	8.	U	9.	UJ
541-73-1	1,3-Dichlorobenzene	9.	UJ	9.	U	8.	U	9.	UJ
106-46-7	1,4-Dichlorobenzene	9.	UJ	9.	U	8.	U	9.	UJ
95-50-1	1,2-Dichlorobenzene	9.	UJ	9.	U	8.	U	9.	UJ
96-12-8	1,2-Dibromo-3-Chloropropane	9.	UJ	9.	U	8.	U	9.	UJ
120-82-1	1,2,4-Trichlorobenzene	9.	UJ	9.	U	8.	U	9.	UJ



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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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VOA		SAMPLE ID -----> LTS-S-BB04-17		LTS-S-BB04-25		LTS-S-BB3B-12		LTS-S-BB3B-14		LTS-S-BB3B-16		LTS-S-BB3C-12	
		ORIGINAL ID -----> LTSSBB0417		LTSSBB0425		LTSSBB3B12		LTSSBB3B14		LTSSBB3B16		LTSSBB3C12	
		LAB SAMPLE ID ----> 209315-011		209315-012		210127-003		210127-004		210127-005		210127-006	
		ID FROM REPORT ---> LTSSBB0417		LTSSBB0425		LTSSBB3B12		LTSSBB3B14		LTSSBB3B16		LTSSBB3C12	
		SAMPLE DATE -----> 04/26/02		04/26/02		06/07/02		06/07/02		06/07/02		06/07/02	
		DATE EXTRACTED ---> 04/26/02		04/26/02		06/07/02		06/07/02		06/07/02		06/07/02	
		DATE ANALYZED ----> 05/06/02		05/07/02		06/12/02		06/12/02		06/12/02		06/12/02	
		MATRIX -----> Soil		Soil		Soil		Soil		Soil		Soil	
		UNITS -----> UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	209315	VAL	209315	VAL	210127	VAL	210127	VAL	210127	VAL	210127	VAL
74-87-3	Chloromethane	8.	U	9.	U	10.	U	8.	U	8.	UJ	8.	UJ
74-83-9	Bromomethane	8.	U	9.	U	10.	U	8.	U	8.	UJ	8.	UJ
75-01-4	Vinyl chloride	8.	U	9.	U	10.	U	8.	U	8.	UJ	8.	UJ
75-00-3	Chloroethane	8.	U	9.	U	10.	U	8.	U	8.	UJ	8.	UJ
75-09-2	Methylene chloride	8.	U	9.	U	10.	U	8.	U	8.	UJ	8.	UJ
67-64-1	Acetone	14.		11.		13.	J	8.	U	8.	UJ	10.	J
75-15-0	Carbon disulfide	8.	U	9.	U	10.	U	8.	U	8.	UJ	8.	UJ
75-35-4	1,1-Dichloroethene	8.	U	9.	U	10.	U	8.	U	8.	UJ	8.	UJ
75-34-3	1,1-Dichloroethane	8.	U	9.	U	10.	U	8.	U	8.	UJ	8.	UJ
67-66-3	Chloroform	8.	U	9.	U	10.	U	8.	U	8.	UJ	8.	UJ
107-06-2	1,2-Dichloroethane	8.	U	9.	U	10.	U	8.	U	8.	UJ	8.	UJ
78-93-3	2-Butanone (MEK)	8.	U	9.	U	10.	U	8.	U	8.	UJ	8.	UJ
71-55-6	1,1,1-Trichloroethane	8.	U	9.	U	10.	U	8.	U	8.	UJ	8.	UJ
56-23-5	Carbon tetrachloride	8.	U	9.	U	10.	U	8.	U	8.	UJ	8.	UJ
75-27-4	Bromodichloromethane	8.	U	9.	U	10.	U	8.	U	8.	UJ	8.	UJ
78-87-5	1,2-Dichloropropane	8.	U	9.	U	10.	U	8.	U	8.	UJ	8.	UJ
10061-01-5	cis-1,3-Dichloropropene	8.	U	9.	U	10.	U	8.	U	8.	UJ	8.	UJ
79-01-6	Trichloroethene	8.	U	9.	U	10.	U	8.	U	8.	UJ	8.	UJ
124-48-1	Dibromochloromethane	8.	U	9.	U	10.	U	8.	U	8.	UJ	8.	UJ
79-00-5	1,1,2-Trichloroethane	8.	U	9.	U	10.	U	8.	U	8.	UJ	8.	UJ
71-43-2	Benzene	8.	U	9.	U	10.	U	8.	U	8.	UJ	8.	UJ
10061-02-6	trans-1,3-Dichloropropene	8.	U	9.	U	10.	U	8.	U	8.	UJ	8.	UJ
75-25-2	Bromoform	8.	U	9.	U	10.	U	8.	UJ	8.	UJ	8.	UJ
108-10-1	4-Methyl-2-Pentanone (MIBK)	8.	U	9.	UJ	10.	U	8.	U	8.	UJ	8.	UJ
591-78-6	2-Hexanone	8.	U	9.	UJ	10.	U	8.	U	8.	UJ	8.	UJ
127-18-4	Tetrachloroethene	8.	U	9.	UJ	10.	U	8.	U	8.	UJ	8.	UJ
79-34-5	1,1,2,2-Tetrachloroethane	8.	U	9.	UJ	10.	U	8.	UJ	8.	UJ	8.	UJ
108-88-3	Toluene	8.	U	9.	UJ	10.	U	8.	U	8.	UJ	8.	UJ
108-90-7	Chlorobenzene	8.	U	9.	UJ	10.	U	8.	UJ	8.	UJ	8.	UJ
100-41-4	Ethylbenzene	8.	U	9.	UJ	10.	U	8.	UJ	8.	UJ	8.	UJ
100-42-5	Styrene	8.	U	9.	UJ	10.	U	8.	UJ	8.	UJ	8.	UJ
1330-20-7	Xylene (Total)	8.	U	9.	UJ	10.	U	8.	UJ	8.	UJ	8.	UJ
156-59-2	cis-1,2-Dichloroethene	8.	U	9.	U	10.	U	8.	U	8.	UJ	8.	UJ
156-60-5	trans-1,2-Dichloroethene	8.	U	9.	U	10.	U	8.	U	8.	UJ	8.	UJ
1634-04-4	Methyl tert-butyl ether	8.	U	9.	U	10.	U	8.	U	8.	UJ	8.	UJ
75-71-8	Dichlorodifluoromethane	8.	U	9.	U	10.	U	8.	U	8.	UJ	8.	UJ

\*\*\* Validation Complete \*\*\*

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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VOA		SAMPLE ID ----->	LTS-S-BB04-17	LTS-S-BB04-25	LTS-S-BB3B-12	LTS-S-BB3B-14	LTS-S-BB3B-16	LTS-S-BB3C-12			
		ORIGINAL ID ----->	LTSSBB0417	LTSSBB0425	LTSSBB3B12	LTSSBB3B14	LTSSBB3B16	LTSSBB3C12			
		LAB SAMPLE ID ----->	209315-011	209315-012	210127-003	210127-004	210127-005	210127-006			
		ID FROM REPORT ----->	LTSSBB0417	LTSSBB0425	LTSSBB3B12	LTSSBB3B14	LTSSBB3B16	LTSSBB3C12			
		SAMPLE DATE ----->	04/26/02	04/26/02	06/07/02	06/07/02	06/07/02	06/07/02			
		DATE EXTRACTED ----->	04/26/02	04/26/02	06/07/02	06/07/02	06/07/02	06/07/02			
		DATE ANALYZED ----->	05/06/02	05/07/02	06/12/02	06/12/02	06/12/02	06/12/02			
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil			
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG			
CAS #	Parameter	209315	VAL	209315	VAL	210127	VAL	210127	VAL	210127	VAL
75-69-4	Trichlorofluoromethane	8.	U	9.	U	10.	U	8.	U	8.	UJ
76-13-1	Trichlorotrifluoroethane (Freon 113)	8.	U	9.	U	10.	U	8.	U	8.	UJ
79-20-9	Methyl Acetate	8.	U	9.	U	10.	U	8.	U	8.	UJ
110-82-7	Cyclohexane	8.	U	9.	U	10.	U	8.	U	8.	UJ
108-87-2	Methyl Cyclohexane	8.	U	9.	U	10.	U	8.	U	8.	UJ
106-93-4	1,2-Dibromoethane	8.	U	9.	UJ	10.	U	8.	U	8.	UJ
98-82-8	Isopropylbenzene	8.	U	9.	UJ	10.	U	8.	UJ	8.	UJ
541-73-1	1,3-Dichlorobenzene	8.	U	9.	UJ	10.	U	8.	UJ	8.	UJ
106-46-7	1,4-Dichlorobenzene	8.	U	9.	UJ	10.	U	8.	UJ	8.	UJ
95-50-1	1,2-Dichlorobenzene	8.	U	9.	UJ	10.	U	8.	UJ	8.	UJ
96-12-8	1,2-Dibromo-3-Chloropropane	8.	U	9.	UJ	10.	U	8.	UJ	8.	UJ
120-82-1	1,2,4-Trichlorobenzene	8.	U	9.	UJ	10.	U	8.	UJ	8.	UJ

\*\*\* Validation Complete \*\*\*

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**LIBERTYVILLE TRAINING SITE**  
**6A & 7 FURTHER INVESTIGATION**  
**Magazines Bravo and Charlie Soil Samples**

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VOA		SAMPLE ID ----->	LTS-S-BB3C-14	LTS-S-BB3C-16	LTS-S-BB3D-12	LTS-S-BB3D-14	LTS-C-BB3D-16	LTS-S-BB3D-16	
		ORIGINAL ID ----->	LTSSBB3C14	LTSSBB3C16	LTSSBB3D12	LTSSBB3D14	LTSCBB3D16	LTSSBB3D16	
		LAB SAMPLE ID ---->	210127-007	210127-008	210146-001	210146-002	210146-004	210146-003	
		ID FROM REPORT -->	LTSSBB3C14	LTSSBB3C16	LTSSBB3D12	LTSSBB3D14	LTSCBB3D16	LTSSBB3D16	
		SAMPLE DATE ----->	06/07/02	06/07/02	06/07/02	06/07/02	06/07/02	06/07/02	
		DATE EXTRACTED -->	06/07/02	06/07/02	06/08/02	06/08/02	06/08/02	06/08/02	
		DATE ANALYZED -->	06/13/02	06/12/02	06/14/02	06/13/02	06/14/02	06/14/02	
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil	
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
CAS #	Parameter	210127	VAL	210127	VAL	210146	VAL	210146	VAL
74-87-3	Chloromethane	9.	U	8.	U	9.	U	9.	U
74-83-9	Bromomethane	9.	U	8.	U	9.	U	9.	U
75-01-4	Vinyl chloride	9.	U	8.	U	9.	U	9.	U
75-00-3	Chloroethane	9.	U	8.	U	9.	U	9.	U
75-09-2	Methylene chloride	9.	U	8.	U	9.	U	9.	U
67-64-1	Acetone	9.	U	8.	U	8.	J	11.	J
75-15-0	Carbon disulfide	9.	U	8.	U	9.	U	9.	U
75-35-4	1,1-Dichloroethene	9.	U	8.	U	9.	U	9.	U
75-34-3	1,1-Dichloroethane	9.	U	8.	U	9.	U	9.	U
67-66-3	Chloroform	9.	U	8.	U	9.	U	9.	U
107-06-2	1,2-Dichloroethane	9.	U	8.	U	9.	U	9.	U
78-93-3	2-Butanone (MEK)	9.	U	8.	U	9.	U	9.	U
71-55-6	1,1,1-Trichloroethane	9.	U	8.	U	9.	U	9.	U
56-23-5	Carbon tetrachloride	9.	U	8.	U	9.	U	9.	U
75-27-4	Bromodichloromethane	9.	U	8.	U	9.	U	9.	U
78-87-5	1,2-Dichloropropane	9.	U	8.	U	9.	U	9.	U
10061-01-5	cis-1,3-Dichloropropene	9.	U	8.	U	9.	U	9.	U
79-01-6	Trichloroethene	9.	U	8.	U	9.	U	9.	U
124-48-1	Dibromochloromethane	9.	U	8.	U	9.	U	9.	U
79-00-5	1,1,2-Trichloroethane	9.	U	8.	U	9.	U	9.	U
71-43-2	Benzene	9.	U	8.	U	9.	U	9.	U
10061-02-6	trans-1,3-Dichloropropene	9.	U	8.	U	9.	U	9.	U
75-25-2	Bromoform	9.	U	8.	U	9.	U	9.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	9.	U	8.	U	9.	U	9.	U
591-78-6	2-Hexanone	9.	U	8.	U	9.	U	9.	U
127-18-4	Tetrachloroethene	9.	U	8.	U	9.	U	9.	U
79-34-5	1,1,2,2-Tetrachloroethane	9.	U	8.	U	9.	U	9.	U
108-88-3	Toluene	9.	U	8.	U	9.	U	9.	U
108-90-7	Chlorobenzene	9.	U	8.	U	9.	U	9.	U
100-41-4	Ethylbenzene	9.	U	8.	U	9.	U	9.	U
100-42-5	Styrene	9.	U	8.	U	9.	U	9.	U
1330-20-7	Xylene (Total)	9.	U	8.	U	9.	U	9.	U
156-59-2	cis-1,2-Dichloroethene	9.	U	8.	U	9.	U	9.	U
156-60-5	trans-1,2-Dichloroethene	9.	U	8.	U	9.	U	9.	U
1634-04-4	Methyl tert-butyl ether	9.	U	8.	U	9.	U	9.	U
75-71-8	Dichlorodifluoromethane	9.	U	8.	U	9.	U	9.	U

\*\*\* Validation Complete \*\*\*

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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VOA		SAMPLE ID ----->		LTS-S-BB3C-14	LTS-S-BB3C-16	LTS-S-BB3D-12	LTS-S-BB3D-14	LTS-C-BB3D-16	LTS-S-BB3D-16		
		ORIGINAL ID ----->		LTSSBB3C14	LTSSBB3C16	LTSSBB3D12	LTSSBB3D14	LTSCBB3D16	LTSSBB3D16		
		LAB SAMPLE ID ----->		210127-007	210127-008	210146-001	210146-002	210146-004	210146-003		
		ID FROM REPORT ----->		LTSSBB3C14	LTSSBB3C16	LTSSBB3D12	LTSSBB3D14	LTSCBB3D16	LTSSBB3D16		
		SAMPLE DATE ----->		06/07/02	06/07/02	06/07/02	06/07/02	06/07/02	06/07/02		
		DATE EXTRACTED ----->		06/07/02	06/07/02	06/08/02	06/08/02	06/08/02	06/08/02		
		DATE ANALYZED ----->		06/13/02	06/12/02	06/14/02	06/13/02	06/14/02	06/14/02		
		MATRIX ----->		Soil	Soil	Soil	Soil	Soil	Soil		
		UNITS ----->		UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG		
CAS #	Parameter	210127	VAL	210127	VAL	210146	VAL	210146	VAL	210146	VAL
75-69-4	Trichlorofluoromethane	9.	U	8.	UJ	9.	U	9.	U	9.	U
76-13-1	Trichlorotrifluoroethane (Freon 113)	9.	U	8.	UJ	9.	U	9.	U	9.	U
79-20-9	Methyl Acetate	9.	U	8.	UJ	9.	U	9.	U	9.	U
110-82-7	Cyclohexane	9.	U	8.	UJ	9.	U	9.	U	9.	U
108-87-2	Methyl Cyclohexane	9.	U	8.	UJ	9.	U	9.	U	9.	U
106-93-4	1,2-Dibromoethane	9.	U	8.	UJ	9.	U	9.	U	9.	U
98-82-8	Isopropylbenzene	9.	UJ	8.	UJ	9.	U	9.	U	9.	U
541-73-1	1,3-Dichlorobenzene	9.	UJ	8.	UJ	9.	U	9.	U	9.	U
106-46-7	1,4-Dichlorobenzene	9.	UJ	8.	UJ	9.	U	9.	U	9.	U
95-50-1	1,2-Dichlorobenzene	9.	UJ	8.	UJ	9.	U	9.	U	9.	U
96-12-8	1,2-Dibromo-3-Chloropropane	9.	UJ	8.	UJ	9.	U	9.	U	9.	U
120-82-1	1,2,4-Trichlorobenzene	9.	UJ	8.	UJ	9.	U	9.	U	9.	U

\*\*\* Validation Complete \*\*\*

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**LIBERTYVILLE TRAINING SITE**  
**6A & 7 FURTHER INVESTIGATION**  
**Magazines Bravo and Charlie Soil Samples**

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VOA		SAMPLE ID ----->	LTS-S-BB3D-18	LTS-S-BB3E-12	LTS-S-BB3E-14	LTS-S-BB3E-16	LTS-S-BB3F-14	LTS-S-BB3F-16			
		ORIGINAL ID ----->	LTSSBB3D18	LTSSBB3E12	LTSSBB3E14	LTSSBB3E16	LTSSBB3F14	LTSSBB3F16			
		LAB SAMPLE ID ----->	210701-028	210127-009	210127-010	210127-011	210701-025	210701-026			
		ID FROM REPORT ----->	LTSSBB3D18	LTSSBB3E12	LTSSBB3E14	LTSSBB3E16	LTSSBB3F14	LTSSBB3F16			
		SAMPLE DATE ----->	07/11/02	06/07/02	06/07/02	06/07/02	07/11/02	07/11/02			
		DATE EXTRACTED ----->	07/13/02	06/07/02	06/07/02	06/07/02	07/13/02	07/13/02			
		DATE ANALYZED ----->	07/18/02	06/12/02	06/13/02	06/13/02	07/18/02	07/18/02			
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil			
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG			
CAS #	Parameter	210701	VAL	210127	VAL	210127	VAL	210701	VAL	210701	VAL
74-87-3	Chloromethane	9.	U	9.	U	9.	U	8.	U	9.	U
74-83-9	Bromomethane	9.	U	9.	U	9.	U	8.	U	9.	U
75-01-4	Vinyl chloride	9.	U	9.	U	9.	U	8.	U	9.	U
75-00-3	Chloroethane	9.	U	9.	U	9.	U	8.	U	9.	U
75-09-2	Methylene chloride	9.	U	9.	U	9.	U	8.	U	9.	U
67-64-1	Acetone	14.		11.	J	12.	J	14.		14.	
75-15-0	Carbon disulfide	9.	U	9.	U	9.	U	8.	U	9.	U
75-35-4	1,1-Dichloroethene	9.	U	9.	U	9.	U	8.	U	9.	U
75-34-3	1,1-Dichloroethane	9.	U	9.	U	9.	U	8.	U	9.	U
67-66-3	Chloroform	9.	U	9.	U	9.	U	8.	U	9.	U
107-06-2	1,2-Dichloroethane	9.	U	9.	U	9.	U	8.	U	9.	U
78-93-3	2-Butanone (MEK)	9.	U	9.	U	9.	U	8.	U	9.	U
71-55-6	1,1,1-Trichloroethane	9.	U	9.	U	9.	U	8.	U	9.	U
56-23-5	Carbon tetrachloride	9.	U	9.	U	9.	U	8.	U	9.	U
75-27-4	Bromodichloromethane	9.	U	9.	U	9.	U	8.	U	9.	U
78-87-5	1,2-Dichloropropane	9.	U	9.	U	9.	U	8.	U	9.	U
10061-01-5	cis-1,3-Dichloropropene	9.	U	9.	U	9.	U	8.	U	9.	U
79-01-6	Trichloroethene	9.	U	9.	U	9.	U	8.	U	9.	U
124-48-1	Dibromochloromethane	9.	U	9.	U	9.	U	8.	U	9.	U
79-00-5	1,1,2-Trichloroethane	9.	U	9.	U	9.	U	8.	U	9.	U
71-43-2	Benzene	9.	U	9.	U	9.	U	8.	U	9.	U
10061-02-6	trans-1,3-Dichloropropene	9.	U	9.	U	9.	U	8.	U	9.	U
75-25-2	Bromoform	9.	U	9.	U	9.	U	8.	U	9.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	9.	U	9.	U	9.	U	8.	U	9.	U
591-78-6	2-Hexanone	9.	U	9.	U	9.	U	8.	U	9.	U
127-18-4	Tetrachloroethene	9.	U	9.	U	9.	U	8.	U	9.	U
79-34-5	1,1,2,2-Tetrachloroethane	9.	U	9.	U	9.	U	8.	U	9.	U
108-88-3	Toluene	9.	U	9.	U	9.	U	8.	U	9.	U
108-90-7	Chlorobenzene	9.	U	9.	U	9.	U	8.	U	9.	U
100-41-4	Ethylbenzene	9.	U	9.	U	9.	U	8.	U	9.	U
100-42-5	Styrene	9.	U	9.	U	9.	U	8.	U	9.	U
1330-20-7	Xylene (Total)	9.	U	9.	U	9.	U	8.	U	9.	U
156-59-2	cis-1,2-Dichloroethene	9.	U	9.	U	9.	U	8.	U	9.	U
156-60-5	trans-1,2-Dichloroethene	9.	U	9.	U	9.	U	8.	U	9.	U
1634-04-4	Methyl tert-butyl ether	9.	U	9.	U	9.	U	8.	U	9.	U
75-71-8	Dichlorodifluoromethane	9.	U	9.	U	9.	U	8.	U	9.	U

\*\*\* Validation Complete \*\*\*

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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VOA		SAMPLE ID ----->	LTS-S-BB3D-18	LTS-S-BB3E-12	LTS-S-BB3E-14	LTS-S-BB3E-16	LTS-S-BB3F-14	LTS-S-BB3F-16				
		ORIGINAL ID ----->	LTSSBB3D18	LTSSBB3E12	LTSSBB3E14	LTSSBB3E16	LTSSBB3F14	LTSSBB3F16				
		LAB SAMPLE ID ---->	210701-028	210127-009	210127-010	210127-011	210701-025	210701-026				
		ID FROM REPORT -->	LTSSBB3D18	LTSSBB3E12	LTSSBB3E14	LTSSBB3E16	LTSSBB3F14	LTSSBB3F16				
		SAMPLE DATE ----->	07/11/02	06/07/02	06/07/02	06/07/02	07/11/02	07/11/02				
		DATE EXTRACTED -->	07/13/02	06/07/02	06/07/02	06/07/02	07/13/02	07/13/02				
		DATE ANALYZED ---->	07/18/02	06/12/02	06/13/02	06/13/02	07/18/02	07/18/02				
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil				
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG				
CAS #	Parameter		210701	VAL	210127	VAL	210127	VAL	210701	VAL	210701	VAL
75-69-4	Trichlorofluoromethane		9.	U	9.	U	9.	U	8.	U	9.	U
76-13-1	Trichlorotrifluoroethane (Freon 113)		9.	U	9.	U	9.	U	8.	U	9.	U
79-20-9	Methyl Acetate		9.	U	9.	U	9.	U	8.	U	9.	U
110-82-7	Cyclohexane		9.	U	9.	U	9.	U	8.	U	9.	U
108-87-2	Methyl Cyclohexane		9.	U	9.	U	9.	U	8.	U	9.	U
106-93-4	1,2-Dibromoethane		9.	U	9.	U	9.	U	8.	U	9.	U
98-82-8	Isopropylbenzene		9.	U	9.	U	9.	U	8.	U	9.	U
541-73-1	1,3-Dichlorobenzene		9.	U	9.	U	9.	U	8.	U	9.	U
106-46-7	1,4-Dichlorobenzene		9.	U	9.	U	9.	U	8.	U	9.	U
95-50-1	1,2-Dichlorobenzene		9.	U	9.	U	9.	U	8.	U	9.	U
96-12-8	1,2-Dibromo-3-Chloropropane		9.	U	9.	U	9.	U	8.	U	9.	U
120-82-1	1,2,4-Trichlorobenzene		9.	U	9.	U	9.	U	8.	U	9.	U

\*\*\* Validation Complete \*\*\*

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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VOA	SAMPLE ID ----->	LTS-S-BB3F-18	LTS-S-BB3G-10	LTS-S-BB3G-12	LTS-S-BB3G-14	LTS-C-BB3G-14	LTS-S-BB3G-16
	ORIGINAL ID ----->	LTSSBB3F18	LTSSBB3G10	LTSSBB3G12	LTSSBB3G14	LTSCBB3G14	LTSSBB3G16
	LAB SAMPLE ID ----->	210701-027	210701-014	210701-015	210701-016	210701-017	210701-018
	ID FROM REPORT ----->	LTSSBB3F18	LTSSBB3G10	LTSSBB3G12	LTSSBB3G14	LTSCBB3G14	LTSSBB3G16
	SAMPLE DATE ----->	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02
	DATE EXTRACTED ----->	07/13/02	07/13/02	07/13/02	07/13/02	07/13/02	07/13/02
	DATE ANALYZED ----->	07/18/02	07/18/02	07/18/02	07/18/02	07/18/02	07/18/02
	MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
CAS #	Parameter	210701 VAL	210701 VAL	210701 VAL	210701 VAL	210701 VAL	210701 VAL
74-87-3	Chloromethane	8. U	10. U	8. U	9. U	8. U	8. UJ
74-83-9	Bromomethane	8. U	10. U	8. U	9. U	8. U	8. UJ
75-01-4	Vinyl chloride	8. U	10. U	8. U	9. U	8. U	8. UJ
75-00-3	Chloroethane	8. U	10. U	8. U	9. U	8. U	8. UJ
75-09-2	Methylene chloride	8. U	10. U	8. U	9. U	8. U	8. UJ
67-64-1	Acetone	12. U	23. U	10. U	16. U	19. U	12. J
75-15-0	Carbon disulfide	8. U	10. U	8. U	9. U	8. U	8. UJ
75-35-4	1,1-Dichloroethene	8. U	10. U	8. U	9. U	8. U	8. UJ
75-34-3	1,1-Dichloroethane	8. U	10. U	8. U	9. U	8. U	8. UJ
67-66-3	Chloroform	8. U	10. U	8. U	9. U	8. U	8. UJ
107-06-2	1,2-Dichloroethane	8. U	10. U	8. U	9. U	8. U	8. UJ
78-93-3	2-Butanone (MEK)	8. U	10. U	8. U	9. U	8. U	8. UJ
71-55-6	1,1,1-Trichloroethane	8. U	10. U	8. U	9. U	8. U	8. UJ
56-23-5	Carbon tetrachloride	8. U	10. U	8. U	9. U	8. U	8. UJ
75-27-4	Bromodichloromethane	8. U	10. U	8. U	9. U	8. U	8. UJ
78-87-5	1,2-Dichloropropane	8. U	10. U	8. U	9. U	8. U	8. UJ
10061-01-5	cis-1,3-Dichloropropene	8. U	10. U	8. U	9. U	8. U	8. UJ
79-01-6	Trichloroethene	8. U	10. U	8. U	9. U	8. U	8. UJ
124-48-1	Dibromochloromethane	8. U	10. U	8. U	9. U	8. U	8. UJ
79-00-5	1,1,2-Trichloroethane	8. U	10. U	8. U	9. U	8. U	8. UJ
71-43-2	Benzene	8. U	10. U	8. U	9. U	8. U	8. UJ
10061-02-6	trans-1,3-Dichloropropene	8. U	10. U	8. U	9. U	8. U	8. UJ
75-25-2	Bromoform	8. UJ	10. U	8. U	9. U	8. U	8. UJ
108-10-1	4-Methyl-2-Pentanone (MIBK)	8. UJ	10. U	8. U	9. U	8. U	8. UJ
591-78-6	2-Hexanone	8. UJ	10. U	8. U	9. U	8. U	8. UJ
127-18-4	Tetrachloroethene	8. UJ	10. U	8. U	9. U	8. U	8. UJ
79-34-5	1,1,2,2-Tetrachloroethane	8. UJ	10. U	8. U	9. U	8. U	8. UJ
108-88-3	Toluene	8. UJ	10. U	8. U	9. U	8. U	8. UJ
108-90-7	Chlorobenzene	8. UJ	10. U	8. U	9. U	8. U	8. UJ
100-41-4	Ethylbenzene	8. UJ	10. U	8. U	9. U	8. U	8. UJ
100-42-5	Styrene	8. UJ	10. U	8. U	9. U	8. U	8. UJ
1330-20-7	Xylene (Total)	8. UJ	10. U	8. U	9. U	8. U	8. UJ
156-59-2	cis-1,2-Dichloroethene	8. UJ	10. U	8. U	9. U	8. U	8. UJ
156-60-5	trans-1,2-Dichloroethene	8. UJ	10. U	8. U	9. U	8. U	8. UJ
1634-04-4	Methyl tert-butyl ether	8. UJ	10. U	8. U	9. U	8. U	8. UJ
75-71-8	Dichlorodifluoromethane	8. UJ	10. U	8. U	9. U	8. U	8. UJ

\*\*\* Validation Complete \*\*\*



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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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VOA		SAMPLE ID ----->	LTS-S-BB3F-18	LTS-S-BB3G-10	LTS-S-BB3G-12	LTS-S-BB3G-14	LTS-C-BB3G-14	LTS-S-BB3G-16
		ORIGINAL ID ----->	LTSSBB3F18	LTSSBB3G10	LTSSBB3G12	LTSSBB3G14	LTSCBB3G14	LTSSBB3G16
		LAB SAMPLE ID ---->	210701-027	210701-014	210701-015	210701-016	210701-017	210701-018
		ID FROM REPORT -->	LTSSBB3F18	LTSSBB3G10	LTSSBB3G12	LTSSBB3G14	LTSCBB3G14	LTSSBB3G16
		SAMPLE DATE ----->	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02
		DATE EXTRACTED -->	07/13/02	07/13/02	07/13/02	07/13/02	07/13/02	07/13/02
		DATE ANALYZED ---->	07/18/02	07/18/02	07/18/02	07/18/02	07/18/02	07/18/02
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
CAS. #	Parameter		210701 VAL	210701 VAL	210701 VAL	210701 VAL	210701 VAL	210701 VAL
75-69-4	Trichlorofluoromethane	8. UJ	10. U	8. U	9. U	8. U	8. UJ	
76-13-1	Trichlorotrifluoroethane (Freon 113)	8. UJ	10. U	8. U	9. U	8. U	8. UJ	
79-20-9	Methyl Acetate	8. UJ	10. U	8. U	9. U	8. U	8. UJ	
110-82-7	Cyclohexane	8. UJ	10. U	8. U	9. U	8. U	8. UJ	
108-87-2	Methyl Cyclohexane	8. UJ	10. U	8. U	9. U	8. U	8. UJ	
106-93-4	1,2-Dibromoethane	8. UJ	10. U	8. U	9. U	8. U	8. UJ	
98-82-8	Isopropylbenzene	8. UJ	10. U	8. U	9. U	8. U	8. UJ	
541-73-1	1,3-Dichlorobenzene	8. UJ	10. U	8. U	9. U	8. U	8. UJ	
106-46-7	1,4-Dichlorobenzene	8. UJ	10. U	8. U	9. U	8. U	8. UJ	
95-50-1	1,2-Dichlorobenzene	8. UJ	10. U	8. U	9. U	8. U	8. UJ	
96-12-8	1,2-Dibromo-3-Chloropropane	8. UJ	10. U	8. U	9. U	8. U	8. UJ	
120-82-1	1,2,4-Trichlorobenzene	8. UJ	10. U	8. U	9. U	8. U	8. UJ	

\*\*\* Validation Complete \*\*\*



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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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VOA		SAMPLE ID ----->	LTS-S-BB3G-18	LTS-S-BB3H-14	LTS-S-BB3H-16	LTS-S-BB3H-18	LTS-S-BB3I-14	LTS-S-BB3I-16		
		ORIGINAL ID ----->	LTSSBB3G18	LTSSBB3H14	LTSSBB3H16	LTSSBB3H18	LTSSBB3I14	LTSSBB3I16		
		LAB SAMPLE ID ----->	210701-019	210701-020	210701-021	210701-022	210701-011	210701-012		
		ID FROM REPORT ----->	LTSSBB3G18	LTSSBB3H14	LTSSBB3H16	LTSSBB3H18	LTSSBB3I14	LTSSBB3I16		
		SAMPLE DATE ----->	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02		
		DATE EXTRACTED ----->	07/13/02	07/13/02	07/13/02	07/13/02	07/13/02	07/13/02		
		DATE ANALYZED ----->	07/18/02	07/18/02	07/18/02	07/18/02	07/18/02	07/18/02		
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil		
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG		
CAS #	Parameter		210701	VAL	210701	VAL	210701	VAL	210701	VAL
74-87-3	Chloromethane		8.	U	8.	U	9.	U	8.	U
74-83-9	Bromomethane		8.	U	8.	U	9.	U	8.	U
75-01-4	Vinyl chloride		8.	U	8.	U	9.	U	8.	U
75-00-3	Chloroethane		8.	U	8.	U	9.	U	8.	U
75-09-2	Methylene chloride		8.	U	8.	U	9.	U	8.	U
67-64-1	Acetone		10.		8.	U	13.		8.	U
75-15-0	Carbon disulfide		8.	U	8.	U	9.	U	8.	U
75-35-4	1,1-Dichloroethene		8.	U	8.	U	9.	U	8.	U
75-34-3	1,1-Dichloroethane		8.	U	8.	U	9.	U	8.	U
67-66-3	Chloroform		8.	U	8.	U	9.	U	8.	U
107-06-2	1,2-Dichloroethane		8.	U	8.	U	9.	U	8.	U
78-93-3	2-Butanone (MEK)		8.	U	8.	U	9.	U	8.	U
71-55-6	1,1,1-Trichloroethane		8.	U	8.	U	9.	U	8.	U
56-23-5	Carbon tetrachloride		8.	U	8.	U	9.	U	8.	U
75-27-4	Bromodichloromethane		8.	U	8.	U	9.	U	8.	U
78-87-5	1,2-Dichloropropane		8.	U	8.	U	9.	U	8.	U
10061-01-5	cis-1,3-Dichloropropene		8.	U	8.	U	9.	U	8.	U
79-01-6	Trichloroethene		8.	U	8.	U	9.	U	8.	U
124-48-1	Dibromochloromethane		8.	U	8.	U	9.	U	8.	U
79-00-5	1,1,2-Trichloroethane		8.	U	8.	U	9.	U	8.	U
71-43-2	Benzene		8.	U	8.	UJ	9.	U	8.	U
10061-02-6	trans-1,3-Dichloropropene		8.	U	8.	UJ	9.	U	8.	U
75-25-2	Bromoform		8.	U	8.	UJ	9.	U	8.	UJ
108-10-1	4-Methyl-2-Pentanone (MIBK)		8.	U	8.	UJ	9.	U	8.	UJ
591-78-6	2-Hexanone		8.	U	8.	UJ	9.	U	8.	UJ
127-18-4	Tetrachloroethene		8.	U	8.	UJ	9.	U	8.	UJ
79-34-5	1,1,2,2-Tetrachloroethane		8.	U	8.	UJ	9.	U	8.	UJ
108-88-3	Toluene		8.	U	8.	UJ	9.	U	8.	UJ
108-90-7	Chlorobenzene		8.	U	8.	UJ	9.	U	8.	UJ
100-41-4	Ethylbenzene		8.	U	8.	UJ	9.	U	8.	UJ
100-42-5	Styrene		8.	U	8.	UJ	9.	U	8.	UJ
1330-20-7	Xylene (Total)		8.	U	8.	UJ	9.	U	8.	UJ
156-59-2	cis-1,2-Dichloroethene		8.	U	8.	UJ	9.	U	8.	UJ
156-60-5	trans-1,2-Dichloroethene		8.	U	8.	UJ	9.	U	8.	UJ
1634-04-4	Methyl tert-butyl ether		8.	U	8.	UJ	9.	U	8.	UJ
75-71-8	Dichlorodifluoromethane		8.	U	8.	UJ	9.	U	8.	UJ

\*\*\* Validation Complete \*\*\*

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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VOA		SAMPLE ID ----->	LTS-S-BB3G-18	LTS-S-BB3H-14	LTS-S-BB3H-16	LTS-S-BB3H-18	LTS-S-BB3I-14	LTS-S-BB3I-16
		ORIGINAL ID ----->	LTSSBB3G18	LTSSBB3H14	LTSSBB3H16	LTSSBB3H18	LTSSBB3I14	LTSSBB3I16
		LAB SAMPLE ID --->	210701-019	210701-020	210701-021	210701-022	210701-011	210701-012
		ID FROM REPORT -->	LTSSBB3G18	LTSSBB3H14	LTSSBB3H16	LTSSBB3H18	LTSSBB3I14	LTSSBB3I16
		SAMPLE DATE ----->	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02
		DATE EXTRACTED -->	07/13/02	07/13/02	07/13/02	07/13/02	07/13/02	07/13/02
		DATE ANALYZED --->	07/18/02	07/18/02	07/18/02	07/18/02	07/18/02	07/18/02
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
CAS #	Parameter		210701 VAL	210701 VAL	210701 VAL	210701 VAL	210701 VAL	210701 VAL
75-69-4	Trichlorofluoromethane	8. U		8. UJ	9. U	8. UJ	8. UJ	9. U
76-13-1	Trichlorotrifluoroethane (Freon 113)	8. U		8. UJ	9. U	8. UJ	8. UJ	9. U
79-20-9	Methyl Acetate	8. U		8. UJ	9. U	8. UJ	8. UJ	9. U
110-82-7	Cyclohexane	8. U		8. UJ	9. U	8. UJ	8. UJ	9. U
108-87-2	Methyl Cyclohexane	8. U		8. UJ	9. U	8. UJ	8. UJ	9. U
106-93-4	1,2-Dibromoethane	8. U		8. UJ	9. U	8. UJ	8. UJ	9. U
98-82-8	Isopropylbenzene	8. U		8. UJ	9. U	8. UJ	8. UJ	9. U
541-73-1	1,3-Dichlorobenzene	8. U		8. UJ	9. U	8. UJ	8. UJ	9. U
106-46-7	1,4-Dichlorobenzene	8. U		8. UJ	9. U	8. UJ	8. UJ	9. U
95-50-1	1,2-Dichlorobenzene	8. U		8. UJ	9. U	8. UJ	8. UJ	9. U
96-12-8	1,2-Dibromo-3-Chloropropane	8. U		8. UJ	9. U	8. UJ	8. UJ	9. U
120-82-1	1,2,4-Trichlorobenzene	8. U		8. UJ	9. U	8. UJ	8. UJ	9. U

\*\*\* Validation Complete \*\*\*

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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VOA	SAMPLE ID ----->	LTS-S-BB31-18	LTS-S-BB3J-10	LTS-C-BB3J-10	LTS-S-BB3J-12	LTS-S-BB3J-14	LTS-S-BB3K-10		
	ORIGINAL ID ----->	LTSSBB3118	LTSSBB3J10	LTSCBB3J10	LTSSBB3J12	LTSSBB3J14	LTSSBB3K10		
	LAB SAMPLE ID ---->	210701-013	210701-007	210701-010	210701-008	210701-009	210701-004		
	ID FROM REPORT -->	LTSSBB3118	LTSSBB3J10	LTSCBB3J10	LTSSBB3J12	LTSSBB3J14	LTSSBB3K10		
	SAMPLE DATE ----->	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02		
	DATE EXTRACTED -->	07/13/02	07/13/02	07/13/02	07/13/02	07/13/02	07/13/02		
	DATE ANALYZED ---->	07/18/02	07/18/02	07/18/02	07/18/02	07/18/02	07/18/02		
	MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil		
	UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG		
CAS #	Parameter	210701	VAL	210701	VAL	210701	VAL	210701	VAL
74-87-3	Chloromethane	8.	U	8.	U	8.	U	10.	U
74-83-9	Bromomethane	8.	U	8.	U	8.	U	10.	U
75-01-4	Vinyl chloride	8.	U	8.	U	8.	U	10.	U
75-00-3	Chloroethane	8.	U	8.	U	8.	U	10.	U
75-09-2	Methylene chloride	8.	U	8.	U	8.	U	10.	U
67-64-1	Acetone	10.	U	11.	U	10.	U	12.	U
75-15-0	Carbon disulfide	8.	U	8.	U	8.	U	10.	U
75-35-4	1,1-Dichloroethene	8.	U	8.	U	8.	U	10.	U
75-34-3	1,1-Dichloroethane	8.	U	8.	U	8.	U	10.	U
67-66-3	Chloroform	8.	U	8.	U	8.	U	10.	U
107-06-2	1,2-Dichloroethane	8.	U	8.	U	8.	U	10.	U
78-93-3	2-Butanone (MEK)	8.	U	8.	U	8.	U	10.	U
71-55-6	1,1,1-Trichloroethane	8.	U	8.	U	8.	U	10.	U
56-23-5	Carbon tetrachloride	8.	U	8.	U	8.	U	10.	U
75-27-4	Bromodichloromethane	8.	U	8.	U	8.	U	10.	U
78-87-5	1,2-Dichloropropane	8.	U	8.	U	8.	U	10.	U
10061-01-5	cis-1,3-Dichloropropene	8.	U	8.	U	8.	U	10.	U
79-01-6	Trichloroethene	8.	U	8.	U	8.	U	10.	U
124-48-1	Dibromochloromethane	8.	U	8.	U	8.	U	10.	U
79-00-5	1,1,2-Trichloroethane	8.	U	8.	U	8.	U	10.	U
71-43-2	Benzene	8.	U	8.	U	8.	U	10.	U
10061-02-6	trans-1,3-Dichloropropene	8.	U	8.	U	8.	U	10.	U
75-25-2	Bromoform	8.	U	8.	U	8.	U	10.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	8.	U	8.	U	8.	U	10.	U
591-78-6	2-Hexanone	8.	U	8.	U	8.	U	10.	U
127-18-4	Tetrachloroethene	8.	U	8.	U	8.	U	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	8.	U	8.	U	8.	U	10.	U
108-88-3	Toluene	8.	U	8.	U	8.	U	10.	U
108-90-7	Chlorobenzene	8.	U	8.	U	8.	U	10.	U
100-41-4	Ethylbenzene	8.	U	8.	U	8.	U	10.	U
100-42-5	Styrene	8.	U	8.	U	8.	U	10.	U
1330-20-7	Xylene (Total)	8.	U	8.	U	8.	U	10.	U
156-59-2	cis-1,2-Dichloroethene	8.	U	8.	U	8.	U	10.	U
156-60-5	trans-1,2-Dichloroethene	8.	U	8.	U	8.	U	10.	U
1634-04-4	Methyl tert-butyl ether	8.	U	8.	U	8.	U	10.	U
75-71-8	Dichlorodifluoromethane	8.	U	8.	U	8.	U	10.	U

\*\*\* Validation Complete \*\*\*

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LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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VOA		SAMPLE ID ----->	LTS-S-BB3I-18	LTS-S-BB3J-10	LTS-C-BB3J-10	LTS-S-BB3J-12	LTS-S-BB3J-14	LTS-S-BB3K-10	
		ORIGINAL ID ----->	LTSSBB3I18	LTSSBB3J10	LTSCBB3J10	LTSSBB3J12	LTSSBB3J14	LTSSBB3K10	
		LAB SAMPLE ID ---->	210701-013	210701-007	210701-010	210701-008	210701-009	210701-004	
		ID FROM REPORT -->	LTSSBB3I18	LTSSBB3J10	LTSCBB3J10	LTSSBB3J12	LTSSBB3J14	LTSSBB3K10	
		SAMPLE DATE ----->	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	07/11/02	
		DATE EXTRACTED -->	07/13/02	07/13/02	07/13/02	07/13/02	07/13/02	07/13/02	
		DATE ANALYZED ---->	07/18/02	07/18/02	07/18/02	07/18/02	07/18/02	07/18/02	
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	Soil	
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
CAS #	Parameter	210701	VAL	210701	VAL	210701	VAL	210701	VAL
75-69-4	Trichlorofluoromethane	8.	U	8.	U	8.	U	8.	U
76-13-1	Trichlorotrifluoroethane (Freon 113)	8.	U	8.	U	8.	U	8.	U
79-20-9	Methyl Acetate	8.	U	8.	U	8.	U	8.	U
110-82-7	Cyclohexane	8.	U	8.	U	8.	U	8.	U
108-87-2	Methyl Cyclohexane	8.	U	8.	U	8.	U	8.	U
106-93-4	1,2-Dibromoethane	8.	U	8.	U	8.	U	8.	U
98-82-8	Isopropylbenzene	8.	U	8.	U	8.	U	8.	U
541-73-1	1,3-Dichlorobenzene	8.	U	8.	U	8.	U	8.	U
106-46-7	1,4-Dichlorobenzene	8.	U	8.	U	8.	U	8.	U
95-50-1	1,2-Dichlorobenzene	8.	U	8.	U	8.	U	8.	U
96-12-8	1,2-Dibromo-3-Chloropropane	8.	U	8.	U	8.	U	8.	U
120-82-1	1,2,4-Trichlorobenzene	8.	U	8.	U	8.	U	8.	U

\*\*\* Validation Complete \*\*\*

LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

VOA		SAMPLE ID ----->	LTS-S-BB3K-12	LTS-S-BB3K-14	LTS-S-BC02-12	LTS-S-BC04-22	LTS-S-BC04-22		
		ORIGINAL ID ----->	LTSSBB3K12	LTSSBB3K14	LTSSBC0212	LTSCBC0422	LTSSBC0422		
		LAB SAMPLE ID ----->	210701-005	210701-006	209315-017	209315-016	209315-015		
		ID FROM REPORT ----->	LTSSBB3K12	LTSSBB3K14	LTSSBC0212	LTSCBC0422	LTSSBC0422		
		SAMPLE DATE ----->	07/11/02	07/11/02	04/26/02	04/26/02	04/26/02		
		DATE EXTRACTED ----->	07/13/02	07/13/02	04/26/02	04/26/02	04/26/02		
		DATE ANALYZED ----->	07/18/02	07/18/02	05/07/02	05/07/02	05/07/02		
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil		
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG		
CAS #	Parameter	210701	VAL	210701	VAL	209315	VAL	209315	VAL
74-87-3	Chloromethane	10.	U	8.	U	9.	U	8.	U
74-83-9	Bromomethane	10.	U	8.	U	9.	U	8.	U
75-01-4	Vinyl chloride	10.	U	8.	U	9.	U	8.	U
75-00-3	Chloroethane	10.	U	8.	U	9.	U	8.	U
75-09-2	Methylene chloride	10.	U	8.	U	9.	U	8.	U
67-64-1	Acetone	12.	J	10.		13.		8.	U
75-15-0	Carbon disulfide	10.	U	8.	U	9.	U	8.	U
75-35-4	1,1-Dichloroethene	10.	U	8.	U	9.	U	8.	U
75-34-3	1,1-Dichloroethane	10.	U	8.	U	9.	U	8.	U
67-66-3	Chloroform	10.	U	8.	U	9.	U	8.	U
107-06-2	1,2-Dichloroethane	10.	U	8.	U	9.	U	8.	U
78-93-3	2-Butanone (MEK)	10.	U	8.	U	9.	U	8.	U
71-55-6	1,1,1-Trichloroethane	10.	U	8.	U	9.	U	8.	U
56-23-5	Carbon tetrachloride	10.	U	8.	U	9.	U	8.	U
75-27-4	Bromodichloromethane	10.	U	8.	U	9.	U	8.	U
78-87-5	1,2-Dichloropropane	10.	U	8.	U	9.	U	8.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U	8.	U	9.	U	8.	U
79-01-6	Trichloroethene	10.	U	8.	U	9.	U	8.	U
124-48-1	Dibromochloromethane	10.	U	8.	U	9.	U	8.	U
79-00-5	1,1,2-Trichloroethane	10.	U	8.	U	9.	U	8.	U
71-43-2	Benzene	10.	U	8.	U	9.	U	8.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U	8.	U	9.	U	8.	U
75-25-2	Bromoform	10.	U	8.	U	9.	U	8.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	8.	U	9.	U	8.	U
591-78-6	2-Hexanone	10.	U	8.	U	9.	U	8.	U
127-18-4	Tetrachloroethene	10.	U	8.	U	9.	U	8.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	8.	U	9.	U	8.	U
108-88-3	Toluene	10.	U	8.	U	9.	U	8.	U
108-90-7	Chlorobenzene	10.	U	8.	U	9.	U	8.	U
100-41-4	Ethylbenzene	10.	U	8.	U	9.	U	8.	U
100-42-5	Styrene	10.	U	8.	U	9.	U	8.	U
1330-20-7	Xylene (Total)	10.	U	8.	U	9.	U	8.	U
156-59-2	cis-1,2-Dichloroethene	10.	U	8.	U	9.	U	8.	U
156-60-5	trans-1,2-Dichloroethene	10.	U	8.	U	9.	U	8.	U
1634-04-4	Methyl tert-butyl ether	10.	U	8.	U	9.	U	8.	U
75-71-8	Dichlorodifluoromethane	10.	U	8.	U	9.	U	8.	U

DATACP3  
08/23/02

LIBERTYVILLE TRAINING SITE  
6A & 7 FURTHER INVESTIGATION  
Magazines Bravo and Charlie Soil Samples

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VOA		SAMPLE ID ----->	LTS-S-BB3K-12	LTS-S-BB3K-14	LTS-S-BC02-12	LTS-C-BC04-22	LTS-S-BC04-22	
		ORIGINAL ID ----->	LTSSBB3K12	LTSSBB3K14	LTSSBC0212	LTSCBC0422	LTSSBC0422	
		LAB SAMPLE ID ---->	210701-005	210701-006	209315-017	209315-016	209315-015	
		ID FROM REPORT ---->	LTSSBB3K12	LTSSBB3K14	LTSSBC0212	LTSCBC0422	LTSSBC0422	
		SAMPLE DATE ----->	07/11/02	07/11/02	04/26/02	04/26/02	04/26/02	
		DATE EXTRACTED ---->	07/13/02	07/13/02	04/26/02	04/26/02	04/26/02	
		DATE ANALYZED ---->	07/18/02	07/18/02	05/07/02	05/07/02	05/07/02	
		MATRIX ----->	Soil	Soil	Soil	Soil	Soil	
		UNITS ----->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
CAS #	Parameter		210701 VAL	210701 VAL	209315 VAL	209315 VAL	209315 VAL	
75-69-4	Trichlorofluoromethane	10. U		8. U	9. U	8. U	15. U	
76-13-1	Trichlorotrifluoroethane (Freon 113)	10. U		8. U	9. U	8. U	15. U	
79-20-9	Methyl Acetate	10. U		8. U	9. U	8. U	15. U	
110-82-7	Cyclohexane	10. U		8. U	9. U	8. U	15. U	
108-87-2	Methyl Cyclohexane	10. U		8. U	9. U	8. U	15. U	
106-93-4	1,2-Dibromoethane	10. U		8. U	9. U	8. UJ	15. U	
98-82-8	Isopropylbenzene	10. U		8. U	9. U	8. UJ	15. U	
541-73-1	1,3-Dichlorobenzene	10. U		8. U	9. U	8. UJ	15. U	
106-46-7	1,4-Dichlorobenzene	10. U		8. U	9. U	8. UJ	15. U	
95-50-1	1,2-Dichlorobenzene	10. U		8. U	9. U	8. UJ	15. U	
96-12-8	1,2-Dibromo-3-Chloropropane	10. U		8. U	9. U	8. UJ	15. U	
120-82-1	1,2,4-Trichlorobenzene	10. U		8. U	9. U	8. UJ	15. U	

\*\*\* Validation Complete \*\*\*